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How to cite:

Culshaw, GM (1998). The decline of infant mortality in England and Wales, 1871-1948: a medical conundrum. The Shropshire experience - Norbury and Lydbury North Registration Sub-Districts, 1891-1902. BPhil thesis The Open University.

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Version: Version of Record

Link(s) to article on publisher's website:

<http://dx.doi.org/doi:10.21954/ou.ro.0000feb8>

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The decline of infant mortality in England and Wales 1871-1948: a medical conundrum. The Shropshire experience – Norbury and Lydbury North Registration Sub-Districts, 1891-1902.

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Thesis offered for B.Phil Degree.

Discipline: Social Sciences.

Date of Submission: ¹⁸/₃₁ December 1997.

Author no: P1020124

Date of award: 18th June 1998

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Abstract

This research, which was conducted as part of a nation-wide project, concerns the structure of infant mortality in two rural registration sub-districts in South Shropshire during the period 1891-1902. Whereas most academic writing on the subject has been based on official statistics that do not facilitate local research, this project is based on the use of a novel primary source - the Births Registers that were kept by Vaccination Officers. In an exercise in nominal record linkage, data from this source is supplemented by information from local sources, to provide a unique, multi-faceted view of infant mortality.

Research results are treated in the context of the work of other academics, with comparisons between the two sub-districts and with national statistics. Analysis is carried out in several frameworks – geographical, environmental and social.

Overall annual infant mortality rates show significant fluctuations, and comparison between the rates in the sub-districts and their constituent parishes reveals marked differences, lending support to C.H. Lee's thesis (1991) regarding the varied regional experience of infant mortality. Analysis in terms of occupation shows that differences in rates between the two sub-districts largely reflect their different social structures.

The high level of neo-natal infant mortality reported by G. Newman (1906) is confirmed, and an in-depth study at family level facilitates the detailed treatment of families in which more than one infant death occurred.

With a caveat concerning the small size of the statistics on which the results of this research were based, the writer concludes that the overall results show that the highest rates of infant mortality occurred mainly in poor families. This confirms the view expressed by several academics, e.g. Barbara Thompson (1984). He also suggests that the

idea that family size was a significant factor in late nineteenth century infant mortality is worthy of further examination.

Acknowledgements

The author would like to thank the following persons for their assistance in his research into infant mortality in Norbury and Lydbury North Registration Sub-Districts, 1891-1902:-

Mr. M. Corfield, Myndtown, Shropshire.

Rev. A.F. Denyer, Lydbury North, Shropshire.

Prof. M. Drake, The Open University, Milton Keynes, Bucks.

Rev. R.T. France, Wentnor, Shropshire.

Mrs. J. Pinnock, Norbury, Shropshire.

Dr. P. Razzell, The Open University, Milton Keynes, Bucks.

Dr. M.E. Wilson, Bishops Castle, Shropshire.

The staff at Shropshire Records & Research Centre, Shrewsbury, Shropshire.

The staff at Shropshire County Council, Records Management Service, Shire Hall, Shrewsbury, Shropshire.

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1. Introduction.

This thesis is the result of one year's research into the structure of infant mortality in two civil registration sub-districts in South Shropshire. In this introductory chapter I shall describe the reason for this project being undertaken by me, and begin to explain the nature of the problems involved in ascribing reasons for the levels of infant mortality which were experienced by communities in England and Wales during the late nineteenth century.

The research which I have carried out concerns the South Shropshire sub-districts of Norbury and Lydbury North, and was undertaken as part of a nation-wide project, organised by Prof. Michael Drake and Dr. Peter Razzell of the Open University. During the last one hundred years infant mortality in England & Wales fell from 156 per 1000 live births (Smith, F.B., 1979, p 65) to less than 20 per 1000 in 1971 (Lee, C.H., 1991, p.61). Such a dramatic improvement demands an explanation, and the aim of our project, which, it is hoped, will last several years, is to offer answers to some of the questions on this subject, which have been posed by scholars over the past one hundred years. The project is entitled *The Decline in Infant Mortality in England and Wales 1871-1948: A Medical Conundrum*. Its scope ends at the year 1948 because it is believed that most of the improvement in Infant Mortality Rates (IMRs) had occurred by that year. I have participated in the first year of this project, and through my work have sought to identify the structure of infant mortality in the late nineteenth century. It is hoped that future researchers will be able to "take up the baton" from me and my colleagues by looking at developments in the field of infant mortality in the first half of the twentieth century, and so provide answers to the conundrum.

The subject of my research was suggested to me by the Project Directors, as they sought volunteers to participate in their enterprise. As will be seen in chapter 2, scholars have exchanged views on the reasons for the decline in infant mortality over the past century, but particularly in the last forty years, in a vigorously conducted debate. Explanations, broadly, fall into two main areas. McKeown and his associates attributed the decline to improvements in standards of living - most notably nutritional improvements (McKeown, T., Record, R.G., & Turner, R.D., 1975, p. 422). However, in Chapter 2 I shall show that this view is opposed by other academics, who attribute the reduction in the level of infant mortality to public health interventions.

As you will see from my literature review, most of the previous research into infant mortality has been carried out at macro level. Our project seeks to make a significant contribution to this controversy by pooling the results of micro-level research into the subject by myself and some 21 other researchers; this thesis is my contribution to this work.

The Project Directors planned this research around the use of a novel primary source. As far as I am aware the Registers of Births and Infant Deaths which were kept by Vaccination Officers have not been used previously on a large scale in this type of research. I shall provide a critique of this source in chapter 3. For now it is enough to state that these registers are fundamental to the project, providing as they do much detailed information on the subject under research. The Registration Sub-Districts of Lydbury North and Norbury were chosen for my enquiry because this source is available for these areas. They are also held sufficiently near to my home to enable me to use them as necessary.

One of the strengths of my research lies in the low level at which I have been operating. Most previous studies of infant mortality have been founded mainly on published statistics,

treating the subject at Registration District level or above. This approach does not facilitate local analysis of the problem, and therefore fails to provide insights into the considerable local variations that were subsumed into the national statistics. As I shall show in chapter 2, this has resulted in calls from some scholars for more detailed, local research to be carried out. The Vaccination Registers have enabled me to study our subject at much lower levels than those considered by previous researchers. As the reader will appreciate from what follows in this thesis, my work has operated at Registration Sub-District level and lower - even to the point of studying the incidences of infant mortality in specific families! It will be seen that by operating at this level, I am able to provide some new perspectives on the problem of infant mortality.

As will be seen in Chapter 4, in adopting this novel approach to my research I have encountered a problem of statistical significance. I am treating a number of small, rural communities in South Shropshire, which, as I shall show in Chapter 4, were experiencing declining populations in the 1890s. As the numbers of people with which I am dealing are small, it is inevitable that the numbers on which my conclusions are based are also small, and, in some cases, statistically insignificant. This makes it dangerous to draw general conclusions from some aspects of my research - in particular, my work in treating individual families falls into this category. However, I believe that the new insights provided by my research at this low level counterbalance any concerns the reader may have about statistical significance. In particular, I believe that my identification of considerable variations between the IMRs in two adjoining sub-districts, and in parishes within the sub-districts, is of great importance.

As will be seen in chapter 3, in addition to the Vaccination Officers' Registers I have used a range of other sources. In fact, the precise nature, method and scope of my work were decided only after a thorough review of local sources available to me. An example of this

is the time span of my research. The period allocated to me for research was 1871-1910; however, it has not been possible for me to treat this time span in full, as the Vaccination Registers for Norbury & Lydbury North cover a shorter period of time. In order to consider both sub-districts over the same period, my research is limited to the period July 1891-December 1902. This short time span dictated that I could not treat the process of change over time in the period 1871-1910. Rather, I have sought to provide a "snapshot" view of infant mortality over a shorter period of time.

Similarly, my choices of primary sources, and my adoption of a research strategy, have both been tailored to make the best use of the sources at my disposal. On reviewing the material available I noted that although there is a considerable amount that is of use in a study of infant mortality, the chronology and content of most sources is such that they do not fit together in quite the way I would have wished. A prime consideration in my selection of sources was the need to overcome the disadvantage of not having access to the Vaccination Officers' Register of Infant Deaths (see Chapter 3).

Realising that the smallness of the community that I am treating offers the opportunity for a detailed, in-depth study, I saw an opportunity to adopt a hypothesis-testing strategy, employing the technique of nominal record linkage. Nominal record linkage is a means of research that involves the linkage of a series of separate contemporary nominal records regarding individuals, in order to arrive at a multi-faceted view of the community or individuals under study. As will be seen in Chapter 3, I have used several sources to complement the Vaccination Registers, in pursuit of a broader view of infant mortality in rural South Shropshire in the 1890s. Most of this data comes from the 1891 Census Enumerators' Books and the Parish Registers. This detailed use of parish registers is only possible in small communities with low population densities, such as those on which I am working. To attempt such a study in a large town or city would almost certainly be too time

consuming, as one would have to search more, larger, parishes in order to trace the necessary information.

I have found that the coverage given by the parish registers, as compared to the information contained in the Vaccination Registers, is good, as table 1 (page 6) shows.

The good quality of the information in the parish registers which I have used is further confirmed by the close correlation between the total number of infant deaths which I traced, and those in the statistics of the Registrar General (see Table 2, page 35).

The hypothesis that I am testing is as follows: -

"Infant mortality in the registration sub-districts of Norbury and Lydbury North during the period July 1891 - December 1902 occurred mainly in large families, most of whom were poor."

It has been my intention, through this research, to treat several issues which, as will be seen in chapter 2, have arisen from the written works of other people who have studied the subject of infant mortality in the late nineteenth century. Chief among these are: (a) the age of mothers whose children died in infancy (b) the number of children in the families which experienced infant mortality (c) the social status of families in which infant mortality

Table 1.

Comparison of infant deaths traced in Vaccination Registers to infant deaths traced in Parish Registers.

Norbury & Lydbury North, July 1891 - December 1902

Norbury Sub-District

No. Deaths in Vac. Reg.	No. Deaths Traced Par. Reg.	No. Deaths Not Traced Par. Reg.	Adjust for No. Deaths Not traceable Par. Reg.	No. Deaths Not traceable Par. Reg. (Adjusted)	% Deaths Not Traced Par. Reg.
16	13	3	1	2	13

Lydbury North Sub-District

No. Deaths in Vac. Reg.	No. Deaths Traced Par. Reg.	No. Deaths Not Traced Par. Reg.	Adjust for No. Deaths Not traceable Par. Reg.	No. Deaths Not traceable Par. Reg. (Adjusted)	% Deaths Not Traced Par. Reg.
43	30	13	6	7	16

Consolidated Totals - Norbury & Lydbury North

No. Deaths in Vac. Reg.	No. Deaths Traced Par. Reg.	No. Deaths Not Traced Par. Reg.	Adjust for No. Deaths Not traceable Par. Reg.	No. Deaths Not traceable Par. Reg. (Adjusted)	% Deaths Not Traced Par. Reg.
59	43	16	7	9	15

Note: Deaths not traceable = Deaths recorded in Vaccination Register which occurred at dates which fell outside the time span of the parish registers covering the stated place of residence. I assume that the burials of these infants were probably recorded in these missing parish registers, and thus that it was not possible for me to trace them.

occurred. Additionally, I have sought to identify instances where a family experienced infant mortality more than once.

The results of my research show that the differences in IMRs between the two sub-districts that I identified could, to a large extent, be accounted for by the remarkably different social structures of the population in these two adjoining areas. Analysis in terms of social classification and family size suggests that there may be some substance to the view expressed in my hypothesis, although allowance should be made for the above-mentioned caveat regarding statistical significance.

In summary, my efforts have been directed towards providing a micro-level view of the structure of infant mortality in rural England in the late nineteenth century which is interesting to the reader, and which makes a meaningful contribution to our knowledge of the conundrum being considered by the project. I hope that my reader will find that I have succeeded in these aims.

2. Infant Mortality 1871-1910: the debate to date.

Infant mortality has long been seen as a problem in the society of England and Wales. In the early years of the twentieth century researchers such as Newman and Newsholme produced very comprehensive works on the subject, and offered their prescriptions for the reduction of this facet of everyday life (Woods, Watterson & Woodward, 1989, pp.113-121). Since their time, the subject of infant mortality has been the focus of much scholarly work, and that attention is still being given to this subject today.

One may ask why so much effort has been directed to attempts to discover the reasons for the increase in IMRs during the late nineteenth century, to as many as 156 per 1000 live births (Smith, F.B., 1979, p 65). The answer to this question lies in the fact that from the middle of the nineteenth century onwards, approximately 25% of all deaths recorded were infant deaths (i.e. deaths of infants under one year old). If one wishes to understand the reasons for the rise and fall of total mortality rates in the period 1871-1948, an understanding of an aspect of the problem that constituted such a large proportion of the total is essential. To a great extent, the rate of infant mortality can be seen as a cipher for the state of health of the population in general (Lee, C.H., 1991, p.55).

As preparation for my work on the research project - *The Decline of Infant Mortality in England and Wales 1871-1948: A Medical Comundrum* I have read a number of works on the subject, and I now summarise the writings which I find most pertinent to my research. After outlining the content and significance of each of these writings I shall relate these texts to the sources which are available to me, and to the work which I am undertaking.

Although he did not devote much of his attention to the subject of infant mortality specifically, the work of Thomas McKeown has proved to be of great significance over the

past twenty years. He, and his associates, argued against the widely held thesis that medical advance and social reform were the main reasons for the decline in infant mortality in our period (McKeown, T., Record, R.G., & Turner, R.D., 1975, pp. 391 – 422). The information that he used was obtained from the Annual Reports of the Registrars General, combining information, taken from census data, concerning the age and sex of the members of the population alive at a given time. He also incorporated returns of causes of death, classified by age, into his work.

McKeown analysed the contribution of medical advances to the control of diseases, which he classified into several groups. In deducing that medical advances played only a small part in the conquest of mortality, he attributed the reduction in mortality rates to improvements in the standards of living of the population of England and Wales (McKeown, T., Record, R.G., & Turner, R.D., 1975, p. 422.) This view seems to suggest that poverty was a major cause of mortality, and this theory was also advanced in Thompson's work on infant mortality in nineteenth century Bradford (Thompson, B., 1984, pp. 120-147). As its title implies, Thompson's work was locally based, treating a major industrial town. Like McKeown, she employed national statistics, such as those found in the Annual Reports of the Registrars General, but she also made use of local material, such as Medical Officer of Health Reports, local newspapers, and local council minutes. By using these sources, Thompson was able to provide a detailed view of the factors contributing to infant mortality in Bradford. Whereas McKeown treated national trends, Thompson was able to consider different areas of her subject town, giving a more in-depth study. Although her conclusion, that poverty was a very significant factor in late nineteenth century infant mortality (Thompson, B., 1984, p. 133), had some similarity to McKeown's implied conclusion (see above) there was no other similarity in the findings of these two researchers. Thompson saw factors such as the adulteration of food, poor hygiene, housing and sanitary conditions, and pollution as of great significance to her findings. She

catalogued some of the problems which local legislators had in enacting laws to improve these factors, and gave great credit to human agencies, in the form of local and central government, in overcoming these problems.

Szreter (1988, pp.1-37) wrote the most strident response to McKeown's work that I have read. He treats his subject on a mainly macro level, using similar sources to McKeown, but supplementing them with references to the findings of other researchers. He dissects McKeown's methods, and criticises many aspects of them. Among the points which he raises were McKeown's problematic classifications of disease types, which did not allow for differences between mortality rates for diseases encompassed under one heading (e.g. bronchitis and TB in the airborne diseases category) (Szreter, S., 1988, p.15). He also criticises what he sees as the inaccuracy of McKeown's classifications of causes of infant mortality, and his tendency to generalise. An example of this last tendency was McKeown's statement that hospitals were not effective until the late nineteenth century. (Szreter, S., 1988, pp. 9). Surely, some of them must have had some effect before this date?

In response to McKeown's expressed belief in the effect of rising living standards on mortality, Szreter relates how this theory falls down when one considers the experience of higher paid industrial workers, compared to their lower paid agricultural counterparts. The benefits of higher disposable income, such as the ability which that gave industrial workers to buy better quality everyday necessities, were counterbalanced by the effects on the health of the urban population which were brought about by over-crowding and pollution (Szreter, S., 1988, p.19).

Szreter points to the "wide geographical experience" in mortality rates (Szreter, S., 1988, p.19). Rural areas experienced slow but steady improvement in our period, but urban

populations endured worsening mortality rates. This phenomenon was confirmed by the Medical Officer of Health for Shropshire in his Annual Report of 1899. He referred to the higher level of infant mortality in the urban areas of the county during that year, in contrast to the rates noted in the rural areas. He attributed this to "improper feeding and general carelessness in the management of infants" (p.4). I am prepared to believe that what may be called poor living conditions were a large factor in the high rates of infant mortality which were experienced in England and Wales during the late nineteenth century. However, the implied assumption that an inability to care for infants was more evident in urban than in rural areas seems to me of dubious validity. I wonder what grounds he had for this assertion. I suspect that it reflects the bias of the Medical Officer of Health. That said, I note that, like Thompson, Szreter sees the main cause of infant mortality in "the fundamentally unhygienic conditions and associated practices of the working class home" (Szreter, S.; 1988, p.31). He cites other research to show that legislation (a) to improve food quality and (b) to introduce health visitor schemes was of great significance in improving IMRs. It intuitively seems likely that "unhygienic conditions" were a significant factor in the causes of infant mortality in our period, but I wonder whether the management of infants was any worse in the towns than in the rural areas.

Szreter (1988, pp. 36) acknowledges the need for local studies of infant mortality in order to understand better the relationship between improved mortality rates in our period, and the preventative measures which were enacted locally to achieve this effect.

In their paper "The causes of rapid infant mortality decline in England and Wales, 1861-1921", (Woods, R.I., Watterson, P.A., & Woodward, J.H., 1988, pp. 343-366, & 1989, pp. 113-132) the authors used evidence derived from the Annual Reports of the Registrar General. This was supplemented by information from the Fertility Report of the 1911 census, which provides data such as the age of women on marriage, the duration of

marriages, the number of children born to couples, the enumeration place, and the husband's occupation. This material was used to calculate IMRs by class, by occupation, or by geographical location, and thus provide a new perspective on an old problem. Medical Officer of Health Reports were also used, to add local information to the work.

Woods, Watterson and Woodward criticised McKeown's work for most of the reasons mentioned above in my treatment of Szreter, but they made the point, additionally, that the cause-specific nature of McKeown's work ignored the opportunity to explore place-specific causes (Woods, R.I., Watterson, P.A., & Woodward, J.H., 1988, p. 345). I find this criticism of McKeown's work valid; McKeown's argument is essentially a generalised one, and he presumably did not see a need to engage in local studies to make his case. There seems little doubt, however, that a research strategy which encompasses the possibility of geographical variations in IMRs can add greater understanding of the subject than that achieved by McKeown, by avoiding what may be seen as over-generalisations.

Adopting a demographic approach, Woods, Watterson, & Woodward showed that as neonatal infant mortality remained high throughout our period, changes in IMRs reflected post-neonatal infant mortality trends (Woods, R.I., Watterson, P.A., & Woodward, J.H., 1988, p.352). This finding links to the work of Newman, (1906, p.257) who noted the high incidence of infant mortality in the first days after birth, attributing this to "the physical conditions of the mother, leading to prematurity and debility of the infant."

If one assumes that the "physical conditions" of working class mothers were likely to be inferior to those of middle and upper class mothers, one can see that in making this statement, Newman was alluding to a class dimension to infant mortality. However, unlike the views expressed by the Shropshire Medical Officer of Health in 1899, referred to above, Newman supported his view with evidence obtained during his work as Medical

Officer of Health in Finsbury, Middlesex; and as a lecturer on Public Health at St.Bartholomew's Hospital, London.

A further interesting finding by Woods, Watterson, & Woodward was the existence of variations in IMRs within urban areas. For example, West London tended to have a lower IMR than east London, and inner cities tended to have a higher IMR than the suburbs of the same cities (Woods, R.I., Watterson, P.A., & Woodward, J.H., 1988, p.358). Whilst acknowledging the difficulty in ascribing causes to these findings, the writers point to evidence suggesting that the urban IMR in the 1890s was inflated by the effect of several long, hot summers. These, combined with poor urban sanitary conditions, resulted in many infant deaths due to diarrhoea. The writers suggest a search for cause of death information, which could be linked to age data and geographical locations. However, such data is not easily obtained in a reliable form, as (a) it is difficult to acquire information about causes of deaths, and (b) such information is often quite unreliable, especially before 1874.

Another researcher who used a demographic approach to his research into infant mortality was C.H. Lee (1991, pp. 55-65). He used statistics from the Annual Reports of the Registrar General to argue against the view which had been expressed by Woods & Woodward that the pattern of infant mortality between urban and rural areas was "remarkably consistent" from one location to another (Lee, C.H., 1991, p.56). His table of regional IMRs for the period 1861-1971 (Lee, C.H., 1991, pp. 57-58), using counties as its regional criterion, shows that the patterns of infant mortality were divergent, there being no uniformity of trends.

Like Woods, Watterson, & Woodward, Lee noted the difficulty in identifying reasons for infant mortality in the absence of cause of death information. As an alternative means of

identifying reasons for infant mortality, he adopted an econometric approach to his research on infant mortality, which was based on employment structure. He used Board of Trade information to analyse infant mortality in the context of the father's occupation, treating the various sectors of industry (e.g. mining, agriculture etc.) separately. He found that the rise in IMRs in the areas of Scotland (Lee, C.H., 1991, p.64) which he treated coincided with the growth of the heavy industries and mining industry. Factors such as population size and density, population per house, and the number of families per house, were all positively related to the IMR, and all appeared significant in this regard.

Lee used IMRs as an indicator of the health of the community, which seems a reasonable line to adopt. However, I do not think that his results disproved Woods & Woodward's view of infant mortality, as his use of counties as regions precluded the kind of comparison which Woods had made between rural and urban areas. After all, nineteenth century counties were not exclusively "urban" or "rural".

Lee saw his use of geographical data in researching infant mortality as being more viable than research via wealth inequalities, because precise data on aspects such as class is difficult to obtain. My experience during my research supports this view. As the reader will see later in this thesis, treatment of issues such as poverty as factors in infant mortality led me to consider my findings in the context of class, but I soon realised that this approach is fraught with difficulties. How does one decide which social grouping an individual fits into? Do we use occupation, or income; or housing criteria? The most commonly available material relates to occupation, but classification of occupations is less than straightforward, as will be seen in my treatment of farmers (pp. 49-50).

Williams and Galley (1995, pp. 401-420) have no doubts about the relevance of the difference between urban and rural IMRs in the nineteenth century. Their paper had as its

source the Annual and Quarterly Returns of Births and Deaths, and they examined the phenomenon in the light of the findings of Woods and Woodward and Lee. Having noted the IMRs in several areas of different types, i.e. towns, semi-rural areas, and rural areas, they plotted the IMRs over the period 1850-1910 in all these places. They showed that although the rates fell generally over the period in all these places, the rates of decline were different in each location. London was more stable in its IMR than were the other places (Williams, N. & Galley, C., 1995, p. 412). These results tend to support the findings of Lee (1991, pp. 55-65). How to explain the differences in IMRs? Williams and Galley referred to work carried out in 1892 by Ogle in producing the Annual Report of the Registrar General in their attempt to deal with this problem.

Ogle's report linked 1891 IMRs to the causes of deaths, and enabled Williams and Galley to carry out cause-specific research into the reasons for infant mortality in that year. They found that premature birth was a large factor in the IMR, although it was worse in industrial towns than in rural areas (Williams, N. & Galley, C., 1995, p. 413). They also confirmed the findings of Newman as regards the high incidence of deaths in the first few days after birth in all areas (Williams, N. & Galley, C., 1995, p. 414).

The authors of the paper concluded that infant mortality declined in some places before the improvements in welfare that Szreter had claimed were the cause of the reduction (Williams, N. & Galley, C., 1995, p. 419). They suggested that it might be worthwhile to explore the idea that the fall in infant mortality was accompanied by a fall in fertility (Williams, N. & Galley, C., 1995, p. 419). They noted that declines in IMRs occurred later in industrial towns than in rural areas, and attributed this to factors such as poor environmental conditions and high incidence of disease (Williams, N. & Galley, C., 1995, p. 420) a finding which is very much in line with that of Thompson.

In spite of the wide range of the work undertaken by the above-mentioned researchers, it will be appreciated that, in the main, the sources they have used have been national statistics, prepared by government officials. The Annual and Quarterly Reports of the Registrars General are a key source for our subject in any period, their comprehensive coverage being one of their prime assets. However, they can, by their nature, give only a broad view of the state of affairs at a given time, and this fact limits the potential of the research for which they are used. The authors of the works to which I have referred are all aware of this problem; they have taken steps to overcome it, and to make best possible use of their sources. An example of this can be seen in the methods adopted by Lee, whose analysis of IMRs in 55 counties over a period of 110 years yields a great deal of detailed information over a lengthy period, and seems a good vehicle for analysis. However, I have already mentioned the inability of users of this method to discriminate between urban and rural areas as a weakness in this method, and there are other problems, also. For example, county boundaries change over time, and therefore comparisons of the same county over a long period of time may not be valid.

I think that the conclusions of Thompson, in her work on Bradford, are especially valid for being the result of an in-depth study of conditions in nineteenth century Bradford, with all that entails in terms of source material. Her use of Medical Officer of Health Reports enriches her work because it provides local information about matters such as living and working conditions. This local content is enhanced by the inclusion of information taken from local authority minutes, detailing the efforts which the town councils were making to try to improve matters, and the local opposition that they encountered in so doing (Thompson, G., 1984, p. 126). I believe that my work on infant mortality in Lydbury North and Norbury will be improved in its depth and local nature by the inclusion of such qualitative material as that used by Thompson. As will be seen in chapter 3, I have available several Medical Officer of Health Reports which contain information relating to

Clun Rural Sanitary District, dating from the 1890s, and give considerable qualitative information about conditions in the area of the sanitary authority. I also have access to some of the minutes of the Sanitary and Rivers Pollution Committee of Shropshire County Council, which contain some references to local initiatives to improve living conditions:

As mentioned above (p.2), the key source in my research is the Vaccination Register of Births which was kept by the Vaccination Officer in the Registration Districts of Norbury and Lydbury North. This source is essentially local in character, but was not used by any of the writers named above. If it has been completed correctly it should replicate the Civil Registration Register of Births for the area, giving details such as the father's name and occupation, the place of residence, and date of birth. Additionally, it includes the date of vaccination. If the child died before vaccination, the date of death should have been entered. When one considers the wish, expressed by several of the above-mentioned writers, for more detailed, local studies of infant mortality in our period, one can appreciate the value of this source. By linking the information in this source to other sources, such as church registers of baptisms, marriages, and deaths, and to the census enumerators' books some of the issues raised by scholars can be treated on a local basis. I have in mind matters such as Thompson's view that poverty was a significant cause of infant mortality, which is linked to Lee's finding that possibly the level of infant mortality was linked to employment structure (see my comments on the work of Lee, above). I also consider Newman's findings about the high incidence of neonatal mortality, which were confirmed by Woods, Watterson & Woodward.

The problem regarding the absence of cause of death data for use in infant mortality research, mentioned above in my reference to the work of Woods, Watterson & Woodward, has proved insurmountable in my research. Although several Annual Reports of the Medical Officer of Health have been available, they have not helped me in this

regard; although they included a section on the categorisation of causes of death, which the official completed, the majority of infant deaths were listed in the "other" column. Having stated this, I am of the opinion that even if I had managed to trace cause of death information, I would have needed to treat it with circumspection, as I would not have felt confident in the accuracy of the diagnoses. I have found no other sources that I can use to obtain cause of death data, so I have, with regret, been obliged to leave this aspect of my work.

As indicated above, there is a common acceptance among researchers of the existence of an Urban/Rural differential in IMRs in our period. My research concerns a rural area of Shropshire, and I am not able to make a detailed comparison of infant mortality in Norbury and Lydbury North with an urban area. An extensive examination of these issues will, no doubt, form part of the overall project, using material culled from my fellow researchers around the country. The advantage of our overall research project is the ability to investigate matters of particular interest at a very localised level - even down to household level, in some cases, or at national level.

The writings on infant mortality to which I have referred are only a small selection from the many works that have been written on this subject. They encompass a variety of approaches to the problem, from the deductive reasoning of McKeown to the demographic work of Woods, Watterson & Woodward, and the more locally based work of Thompson. I hope the reader will agree that my work, on a micro scale, gives a fresh perspective on this old conundrum, and adds some detailed local "colour" to the largely macro-scale research which I have mentioned above:

3. Primary Sources

In this chapter I describe the primary sources which I have used in my research. This treatment is intended to be detailed, providing an assessment of the extent, strengths and weaknesses, of the sources. I shall also demonstrate the suitability of these sources to my research.

As I mentioned in chapters 1 and 2, the core sources for the project are the **Vaccination Registers of births and infant deaths** (hereinafter referred to as Vaccination Registers) which were kept by Vaccination Officers from 1871 onwards. The keeping of these records was instigated by the British Government in 1871, as part of the machinery which was designed to enforce newly-enacted legislation to compel vaccination against Smallpox of all infants. The sort of universally available protection which this legislation was intended to bring about had not been available previously in England and Wales, and thus there were some areas of the country where smallpox vaccination had been neglected, with adverse effects on mortality rates (Drake, M. & Razzell, P, 1997, p.18).

The Vaccination Registers are an official source. They were kept by Vaccination Officers in the localities, to strict instructions issued by the Local Government Board (Drake, M. & Razzell, P., 1997, pp.20/21). As such, they conform to a standard format, and the scope of the information contained in them should be consistent.

Appendix 1 shows the information that should have been entered in the Vaccination Registers. The registers were cross-referred to the Civil Register of Births by recording a serial number in respect of each entry. This number was common to both records. As the

geographical area covered by the Vaccination Register of Births is the registration sub-district, and all births in the area are supposed to have been recorded in it, it follows that this register should be a copy of the civil register for the registration sub-district. This being so, the numbers in the Civil Register of Births cited in this register should run consecutively.

It will be appreciated that this source enables us to discover a great deal of information about the children recorded in their pages, and their parents. This is why this source is so important to the research project to which I am contributing; I am able to look beyond national or Sub-District statistics, and research in detail the structure of infant mortality at a micro level. It is even possible to research the subject by studying individuals or small family groups.

The entries in both of the Vaccination Registers that I am using are numbered in a sequence running from 1 to 500, with five entries per page. When entry number 500 is reached, the sequence re-commences at number 1. This means that there is duplication of numbers, which could lead to confusion, especially if the researcher is using a computer to record and sort his or her records. To overcome this problem it would be necessary to record the date of the event being considered, as well as the number, or to allocate a research log reference to each entry.

The detail in the Vaccination Registers is clearly recorded, on the whole. Occupations are easily read and the terms used are not of a type to defy understanding.

The area of my research covers two registration sub-districts in South Shropshire – Norbury and Lydbury North. These districts are adjacent to one another, and are small, rural areas. The Vaccination Registers are available for limited periods only. Those

relating to Lydbury North cover the period 1888-1911, whilst the records for Norbury cover the years 1891-1903. As the time periods recorded in the registers for the two sub-districts are not precisely the same, and in order to carry out a meaningful comparison of infant mortality in the two sub-districts, I have limited the period of my research to the period July 1891 to December 1902.

In spite of the great usefulness of Vaccination Registers, these records have some weaknesses as a source for my research, and I now consider, briefly, three of these.

The first point to make is that although there is uniformity in the fields of information that should be included in this source, it cannot be regarded as wholly consistent. This is because its accuracy and completeness must be dependent on the thoroughness (or awareness) of the Vaccination Officer who completed it. Having stated this, I believe that the registers that I am using are very reliable. I base this opinion on the fact that, taking the Norbury register as an example, of all children recorded as having been born, 90% of them are recorded either as having been vaccinated or as having been exempted from vaccination, with relevant dates included. Of unvaccinated persons, all but one was accounted for either as having died, or as having left the sub-district.

I find that the Lydbury North Registers were better maintained than those for Norbury; whilst the Lydbury North Vaccination Registers contain only one deletion and one case in which a page was missed, the records for Norbury are quite different. I found three cases in which entries had been deleted and re-entered on the next page, twenty seven cases in which a number of lines had been left blank before starting a new page, and seven cases in which pages had been left blank. Apart from one case when a page had been left blank, apparently to mark the point at which a new Vaccination Officer took over the care of the register (between entries nos. 204-205, during 1892), I can see no logical reason why these

anomalies should exist. It seems that the Norbury register was maintained in a different way from that of Lydbury North, and a need was seen to start a new page at certain points in the records. However, I have not been able to work out why this was done, as the records at these points do not seem especially significant. Essentially, however, I am satisfied that both these registers were well kept. They both encompass a complete numbering sequence, and both registers contain full information on the cases that are entered therein.

The register contains some entries in which names or locations are difficult to decipher, but cross-reference to other sources helps me to overcome this problem.

A further weakness of the Vaccination Register as regards my research lies in the fact that not all the infant deaths in the sub-district were noted therein. As well as the Births register, government legislation also required Vaccination Officers to maintain registers of the deaths of infants under the age of one year. These records did not state the cause of death, but they were correlated to the Civil Register of Deaths, and included information such as the child's name and age, the date and place of death, the name and occupation of the child's father, and a note of whether or not the child had been vaccinated. Entries in these records were cross-referred to the relevant entry in the Civil Register of Births in the sub-district, making it easy to relate this material to the information in the Vaccinators' Register of Births. Alas, the Register of Infant Deaths is not available in either of the sub-districts which I am treating, so I have to rely on the infant deaths which were recorded in the Vaccination Register of Births which is available to me. I have compared the number of infant deaths which I have identified from this source to the number of infant deaths in my areas of study which were shown in the annual and quarterly returns of the Registrar General. It is apparent that not all the infant deaths in Norbury and Lydbury North in my period were recorded in the Vaccination Officers' Birth Registers. This being so, I have had

to record infant burials at the various churches in the sub-districts which I am studying, in order to try to trace the missing entries.

Burial registers contain the date of burial, and the name, age and abode of the deceased (Appendix 1). My search for information relating to infant deaths in Norbury and Lydbury North would possibly be enhanced by a search of the records of cemeteries in the locality. However, the close correlation of the results of my research to the statistics of the Registrar General, to which I alluded in Chapter 1 (see Table 2, p. 35), suggests that I have succeeded in tracing most, if not all, of the infant deaths in my area of study during the years under consideration.

A third weakness in the Vaccination Registers of Births stems from evidence, which I found, that not all births were recorded therein. In the burial register for Norbury I traced the death of a child aged fifteen hours. This child was not included in the Vaccination Register of Births, and as the reference numbers which are included in this source, and which cross-refer to the Civil Register, run consecutively, I assume that this child was not recorded in official statistics. Presumably his birth was not recorded officially by his parents. I can understand that a stillborn child would not feature in a Register of Births, but would think that a child who was born alive should be included; I have, therefore, included this birth and death in my research data.

The Parish Registers of the Church of England are an important source in my research. I have already mentioned my use of Burials Registers in my attempt to compensate for missing data in my main source. Additionally, parish registers of baptisms and marriages have been of vital importance to the success of my research strategy.

Registers of Baptisms contain the information detailed in Appendix 1. The date of the baptism is stated, and sometimes the date of birth of the child is also included.

A weakness in this source lies in the fact that, according to Drake (Drake & Finnegan with Eustace, 1994, p.74) in 1800 about 30% of children born were not entered in the Baptism Registers of the Church of England. With the growth of other religions (especially Methodism) during the nineteenth century, this figure could be understated by the late nineteenth. As some children were baptised in other religious denominations, it is necessary to include the records for as many of these churches as possible in my research if I am to attempt to obtain comprehensive coverage. Even this may not fill the gap in our knowledge completely, however: some people were not baptised at all, whilst others may have been baptised away from their home or in a neighbouring parish.

It should be noted that the fact that a person was baptised in a church of a certain denomination does not necessarily mean that the person was of that particular religious denomination. As the Church of England is the state church, many persons of non-conformist religions were baptised in that church, and therefore such information about a person's religious persuasion must be treated with circumspection. The reader will see that, in my research, I have used baptisms to decipher the religion of the people who I am treating, but I do so bearing in mind this caveat, and do not believe necessarily that my assumptions on this matter are correct.

Marriage Registers contain information about the names, ages, occupations (although female occupations are rarely stated), condition (bachelor/spinster), and father's name and occupation in respect of the persons being married. This information is as stated by the parties to the ceremony, so it may not be regarded as totally reliable, but its potential value in a nominal record linkage exercise such as that which I am engaged in is apparent.

I had hoped to trace the marriages of a large number of the couples who had an infant death in their family through my searches of the parish registers of marriages. However, I regret to report that I was only successful in tracing five such marriages; so this aspect of my research was of little value to me. It seems that the majority of the couples who experienced the death of an infant in my period were married outside the sub-districts that I am treating, or were not married in their local Anglican church; this may well be an interesting piece of information for a study of migration, but it falls outside the scope of my research. The constraints of time have prevented me from further pursuing this aspect of my work.

Both Registers of Baptisms and Registers of Marriages are useful in building up family groups to ascertain the size of families, or kinship networks within a community. I have used them to cross-refer information to that contained in the Vaccination Register of Births, to reconcile any queries, or to check its coverage. The occupational information included in these has also been compared to that in the Vaccination Register of Baptisms to check for consistency. This has been done to check, for instance, that a person who was recorded as a farmer in one record was not recorded as an Agricultural Labourer in the other!

As I stated in considering Registers of Baptisms, Church of England Parish Registers do not cover the whole population, and it is necessary to look for registers relating to other religious denominations if we hope to obtain information regarding all marriages in the sub-district. Additionally, some marriages occurred in civil ceremonies, and these will not be traced without much time-consuming work, spent searching the civil registers. As Civil Registers are recorded in alphabetical order by name, it is not feasible to carry out this research, and thus this lies beyond the scope of my work.

Even if these ceremonies could be traced, the Civil Registration indexes contain very sparse information, and it would be necessary to purchase copies of Marriage Certificates to obtain similar information to that which is contained in the parish registers. The costs involved in purchasing marriage certificates in England and Wales (currently £6.00 per certificate) would preclude research of this type.

The list of primary sources accompanying this thesis shows the Church of England and other registers that I have used in my research (p.71). The Church of England registers have all been kept in an apparently thorough manner, but there are some instances in which the handwriting of the cleric was very hard to read, which posed some problems. As I mentioned above, cross-referral between sources helps to resolve such matters. As regards the records contained in the Methodist Registers that have been available to me, these appear to have been kept in notebooks and copied into the register retrospectively. They are not in a consistent chronological order, and there is a strong possibility that some baptisms have been omitted from the records.

One useful by-product of my use of the burial registers of the Church of England was that I was able to trace cases of multiple infant deaths involving families who form part of my study. As will be seen in chapter 4 (p. 58), I have been able to identify some cases where a family who experienced the death of infant(s) in my period had already had similar experiences before the period covered by my work. I judge such cases to be very relevant to my research, as the fact that a family had more than one case of infant death in it may indicate that these events were more than random in their occurrence.

An important nominal record used in my research is the **Census Enumerators' Book for the 1891 census (CEB)**. This source is available for both of the registration sub-districts I am treating, and includes the information shown in Appendix 1.

Each entry in a CEB should show whether the person was employed or not, or an employer or employee. However, in the records I have been using, the boxes that indicate the employment status of the individuals have been completed only rarely, making this information of little or no value to me. This has made it more difficult to deduce the precise social grouping of the people in my survey than I had hoped it would be. An example of the way in which this omission has hindered my work can be seen in my treatment of farmers (chapter 4, p. 49). In seeking to allocate these people to the appropriate social grouping it would have been of great value to me if the enumerator had indicated the employment status of these individuals. I have had to use other means to compensate for this omission, and describe the methods that I used to do this in chapter 4 (p.49).

As regards the place of residence, the CEBs show the number of rooms occupied by the household, if less than five, which may lead us to some evaluation of living conditions. By painstakingly working my way through each entry in the 1891 CEBs for Norbury and Lydbury North, I have been able use this information, combined with data derived from the same source showing the number of persons per house, to produce Appendix 2, which is discussed in chapter 4 (pp.43-44). CEBs also provide an outline description of the extent of the area, which can be useful in locating the precise position of the households on a map.

The value of this source in building up family groups for analysis will be clear to the reader. When used in conjunction with the other sources mentioned above, CEBs facilitate detailed, local study of the communities of Lydbury North and Norbury, which is of great value to my study of the nature of infant mortality.

CEBs are a standard source, compiled by officials on behalf of the government, and as such, they are generally consistent and reliable. However, they do have some weaknesses as a primary source, and I shall now mention some of these. Firstly, the information contained therein is only as reliable as the informant. Failings of memory, or a propensity to imagination could lead to us obtaining a misleading view of a household. For example, ages could be incorrectly stated, which would reduce the accuracy of aspects of my research that encompassed consideration of the mothers' ages. Occupations could be misrepresented, skewing a class-related survey of infant mortality. If a number of informants misled the enumerator about cases in which the household head and his partner were unmarried, this could reduce the value of aspects of my research which treat infant mortality in cases of illegitimacy.

A further problem lies in the accuracy of the enumerator in recording the information given to him, insofar as errors could arise from mistakes in transcription, or from misunderstandings. Respondents could fail to comprehend the questions asked in the census, but also, much information was given to the enumerator verbally, and was easily misunderstood.

Legibility is often a serious problem in treating CEBs. Cross-referral of information such as ages or occupations with similar information in other sources can help to overcome this problem, but often this is not possible, with the resultant danger of the information in a CEB being misinterpreted.

The view of a household that is given by a CEB entry cannot necessarily be taken as being typical, as it only shows the situation on a particular night. Thus, it is possible to misunderstand the groupings in which people lived their lives, and the locations in which they lived. The household may have been staying at their stated abode for only one day, or

may have resided at the address shown for a considerable time. In relating the incidence of infant mortality to issues such as overcrowding this must be borne in mind, and reference to residential information included in the other sources mentioned above may help to clarify such matters.

In order to obtain evidence of the social standing of people, I have used the **Rate Book for Lydbury North (1896)** and the **Valuation List for Hopesay (11th February 1898)**.

These sources list all persons required to pay rate charges to the local authority, and as such they do not include all members of a community. They should, however, list all owners and occupants of property in the area, showing the information listed in Appendix 1 in respect of each property. These records have been of great value to me in ascertaining the social status of farmers, an issue that, as I mentioned above, presented me with a problem during my research.

The **Annual and Quarterly Returns of the Registrar General** are available for the period covered by my research, and are based on the data contained in the civil registers of births, marriages and deaths. The accuracy of this information is dependent on the quality of the information given to the local registrars on registration, and I have shown above that it can contain inaccuracies. In addition to the inaccuracies which I have identified, we should bear in mind that the data from which these returns were compiled was copied several times before the reports were issued, and therefore there must be a probability of errors in their production. These statistics have been the basis of most research into infant mortality, but they are of limited use in treating the subject at a very localised level, as the smallest area for which statistics are available is the sub-district.

In comparing the statistics which result from my research with those published by the Registrar General, we must allow for the limitations placed on our statistics by the time

frame of our research. By way of explanation of this point, I refer to an infant death that I traced in the Norbury burial register. The child in question died at the age of ten months, and his death will be recorded in the civil registers for 1891. However, his birth took place before the period of the Vaccination Register of Births for Norbury, and cannot, therefore, feature in my statistics. Factors such as this can create apparent discrepancies between the official statistics and those arrived at by me in my research.

Annual Medical Officer of Health (MOH) Reports add a qualitative dimension to my research. These reports, which were hand-written or typed, fall into two categories. The reports for Clun Sanitary Authority, which administered the Clun Rural Sanitary District, are available for the years 1889, 1890, 1892 and 1896. The first two of these years fall outside my stipulated period of research, but may be used, nevertheless, to appraise me of the views of the MOH at that time, for the purposes of setting the scene, and for comparative purposes. The content of these reports varies from year to year, but typically one may expect to find information regarding the birth and death rates in the area, and infant mortality statistics, analysed to show causes of death. Aggregated statistics of deaths were analysed to show the ages and causes of deaths. In addition to this, a written account is given of the incidence and nature of sickness in the area, including comment on causes of illness and possible remedies. This account makes up a large proportion of the report, and is very important potentially because the Medical Officer of Health highlighted matters that he judged to be of prime importance in his pursuit of the improvement of the situation in his area, and often makes recommendations in this regard. The comments that he made reflected the ideas and prejudices of the MOH, as I mentioned in Chapter 2 (p.11); and this needs to be taken into account in using this source. In spite of this, however, this source provides good quality information about the health problems in the area, and the steps that the MOH recommended to deal with them. It also informs about topics such as housing

and sanitation, and can, thus, be used in conjunction with nominal sources to arrive at an informed view of living conditions in the sub-districts that I am treating.

The second category of **Medical Officer of Health (MOH) Reports** which I am using have as their subject the county of Shropshire, rather than the sanitary district. They contain information similar to that described above in relation to the MOH Reports for Clun Sanitary Authority, but at the level of the County. Additionally, county statistics relating to mortality are often evaluated against a national background. They have the advantages and disadvantages of the reports described above, but do not contain as much local detail as those described above. In spite of this they are very useful in my work, as they usually contain a brief treatment of my area, which has been extracted from the report for the Clun Sanitary Authority. The information which they contain can be taken to relate to my area in general terms, and the statistics which are given at County level can be used for comparison with those resulting from my research.

In my use of these reports, I have encountered two significant problems. Firstly, although the data includes a cause-specific analysis of deaths occurring at various ages in a given year, as far as infant mortality is concerned this is of no use, as all the infant deaths were classified under "Other" causes. From this we may deduce that the cause of infant mortality was not one of the infectious diseases or diarrhoea, but we do not learn anything positive about the nature of infant mortality.

The second problem which I encountered in using MOH Reports lies in the fact that, apart from the reports for 1889, 1890 & 1892, the statistics of births and infant deaths for Norbury and Lydbury North were not shown separately. This is because statistics were given for the Rural Sanitary District of Clun only. This means that it has not been possible

for me to compare the statistics arrived at in my research to those of the Medical Officer of Health.

I have used *Dr. Reginald Farrar's report to the Local Government Board on the sanitary circumstances and administrations of the Clun Rural District, Salop* (1905) to obtain information about matters such as sanitary arrangements and housing at the beginning of the twentieth century. The date of this report falls just outside the time frame on which I have worked, but it is unlikely that there will have been a significant change in these matters in the three years between the end of my period and the date of the report. Additionally, it seems likely that the field research for the report was largely carried out in the years leading up to its publication. As such, its contents are of great interest to me.

As a Government Report this source should be relatively unbiased, and I believe the information therein to be generally accurate. However, it seems fair to note that the inspectors who compiled such reports were charged with the duty of bringing about an improvement in the situation as regards sanitation and housing, and they approached their work critically. They would, therefore, be unlikely to be satisfied with the status quo.

This report does not name specific buildings or people, but comments on findings obtained in small villages and hamlets, so its content is of great value to my research.

These, then, are the sources that I have used in my research. I explained in chapter 1 (p. 4) the considerations that I had in mind when I decided to use these materials. I hope that the reader will find that the primary sources which I have used have proved suited to the research that I have carried out, and that, used together, they provide a rounded view of my research subject.

4. Norbury and Lydbury North

In this chapter I summarise the main findings of my research, relating them to some of the issues arising from academic writings, mentioned in chapter 2, on the subject of infant mortality. I begin by considering briefly some general matters relevant to my study of Infant Mortality in the period 1891-1902. I shall then deal with some more detailed data arising from my work.

As I mentioned in Chapter 1, in reading the following, allowance should be made for the relatively small numbers with which I am dealing. The geographical area of my research - South Shropshire in the 1890s - was a low population region, and it is inevitable that this is reflected in my work. Some of my results may be regarded as statistically insignificant, but there seems no remedy for this if we are to carry out the sort of micro-scale research which scholars have called for (e.g. Williams & Galley, 1995, p.420).

The Local Geography.

The two Registration Sub-Districts that are the subject of my research were essentially rural in character, and situated in South Shropshire. The villages and hamlets that comprise Norbury Sub-District lie generally on high ground in the South Shropshire hills (Appendix 6). The colour coding on this map illustrates, in general terms, the height in feet above sea of these parishes. It will be seen that the parishes that make up Norbury Sub-District were generally on higher ground than those in Lydbury North Sub-District.

In his *Report to the Local Government Board on the Sanitary Circumstances and Administration of the Chun Rural District, Salop* (1905), Dr. Reginald Farrar provides a brief topographical and geological description of the area. He describes the ground in the area as being mainly sandstone and shale, although on the higher ground there are "outcrops of igneous rocks"(p.1). Farrar comments that due to the hilly nature of the

ground, "grazing land bears a higher proportion to arable than is usual in agricultural districts"(p.2).

Farrar noted (p.3) the area should not have experienced difficulties regarding water supplies, as the high hills provided "good gathering grounds and yield copious springs at their bases". However, there were very few cases in which water supplies were laid to houses or schools, such facilities being arranged by the enterprise of private owners. As we shall see later, water supplies were considered by Farrar to be problematic.

Coverage of Sources

As I mentioned in chapter 3, I have related the data obtained from parish registers of burials within Norbury and Lydbury North Sub-Districts to the statistics obtained from the Annual Returns of the Registrar General. I believe that I have succeeded in identifying almost all the cases of infant mortality within the period of my research, as one can appreciate by looking at Table 2, which compares the statistics obtained from my work with the official statistics.

Table 2.

**Comparison between the infant mortality statistics resulting from my research
and the Annual figures of the Registrar General, Norbury & Lydbury North,
July 1891 – Dec 1902.**

Registrar General's Quarterly Returns											
Norbury						Lydbury North					
	Q 1	Q 2	Q 3	Q 4	Total		Q 1	Q 2	Q 3	Q 4	Total
July-Dec 1891			0	4	4	July-Dec 1891			1	1	2
1892	1	0	0	1	2	1892	0	2	3	1	6
1893	0	2	0	1	3	1893	3	2	0	2	7
1894	0	1	0	0	1	1894	1	1	0	0	2
1895	2	0	0	0	2	1895	1	1	0	0	2
1896	0	0	0	0	0	1896	0	2	0	1	3
1897	0	0	1	0	1	1897	1	0	0	0	1
1898	0	0	0	0	0	1898	2	1	1	1	5
1899	0	0	0	0	0	1899	1	0	0	0	1
1900	0	1	1	0	2	1900	3	1	2	0	6
1901	1	0	0	0	1	1901	0	1	2	0	3
1902	0	1	1	0	2	1902	1	3	1	0	5
1903	1	0	0	0	1	1903	0	0	0	0	0
Total	4	5	3	5	18	Total	13	14	10	5	43

IMP Data - sources Vaccination Officers' Births Register & Parish Records of Burials											
Norbury						Lydbury North					
	Q 1	Q 2	Q 3	Q 4	Total		Q 1	Q 2	Q 3	Q 4	Total
July-Dec 1891			0	3	3	July-Dec 1891			0	0	0
1892	1	0	0	1	2	1892	0	2	3	1	6
1893	0	2	0	1	3	1893	2	2	0	2	6
1894	0	1	0	0	1	1894	1	1	0	0	2
1895	0	0	0	0	0	1895	1	1	0	0	2
1896	0	0	0	0	0	1896	0	2	0	1	3
1897	0	0	1	0	1	1897	0	0	0	1	1
1898	0	0	0	0	0	1898	2	2	1	1	6
1899	0	0	0	0	0	1899	1	0	0	0	1
1900	0	1	1	0	2	1900	3	1	2	0	6
1901	1	0	0	0	1	1901	0	1	2	0	3
1902	0	1	1	0	2	1902	1	4	0	2	7
*1903	0	1	0	0	1	1903	0	0	0	0	0
Total	2	5	3	5	15	Total	11	15	5	5	43

*Note: 1903 data = one infant death which occurred during 1903, involving a child born during 1902

The reader will note that I have included in my results the death of an infant born within the period of my research, who died in 1903. This is because I am treating infant mortality in respect of infants born in the period July 1891 to December 1902. I have searched the indexes to the civil registers of deaths, to see whether any of the other infants born in Norbury and Lydbury North during 1902 died in infancy, but I was not able to find any more such cases. In order to ensure consistency, I have excluded from my results any infant deaths occurring during my period of research in respect of children born before July 1891.

In looking at Table 2, there are factors that need to be borne in mind if one is to explain the differences between the two sets of data. I mention two of these factors here: -

1. Differences in timing between the date of death, as recorded by me, using the Vaccination Registers and the Parish Burial Registers. A death occurring at the end of a three-month period may have been reported to the registrar after the end of that quarter, and would appear in the official statistics for the period in which it was reported.
2. Differences in the geographical location in which the death was recorded by the registrar. I came across a case in which a death that occurred in Lydbury North in 1898 was registered in Atcham Registration District, which is near Shrewsbury.

Having noted factors such as these, I calculated a series of Infant Mortality Rates (IMRs) for the area and period of my research (Table 3).

Infant Mortality – Local Variations and National Context.

It will be noted that in both of the sub-districts, the IMR over the period of that I am treating was lower than the national rate of 152 deaths per 1,000 births. However, the

Table 3

Annual Infant Mortality Rates – Norbury, Lydbury North

And England & Wales, July 1891-December 1902.

Norbury Sub-District				Lydbury North Sub-District			
Infant Mortality Project				Infant Mortality Project			
	No. Births	No. Deaths	IMR		No. Births	No. Deaths	IMR
*1891	18	3	N/A	*1891	22	0	N/A
1892	33	2	61	1892	47	6	128
1893	31	3	97	1893	46	6	130
1894	28	1	36	1894	37	2	54
1895	26	0	0	1895	43	2	47
1896	33	0	0	1896	49	3	61
1897	22	1	45	1897	33	1	30
1898	21	0	0	1898	36	6	167
1899	38	0	0	1899	42	1	24
1900	17	2	118	1900	40	6	150
1901	26	1	38	1901	29	3	103
1902	24	2	83	1902	41	7	171
1903	N/A	1	N/A	1903	N/A	0	N/A
Total	317	16	60	Total	466	43	92

Norbury & Lydbury North Sub-Districts Combined

Infant Mortality Project			
	No. Births	No. Deaths	IMR
*1891	40	3	N/A
1892	80	8	100
1893	77	9	117
1894	65	3	46
1895	69	2	29
1896	82	3	37
1897	55	2	36
1898	57	6	105
1899	80	1	13
1900	57	8	140
1901	55	4	73
1902	65	9	138
1903	N/A	1	N/A
Total	782	69	76

England & Wales			
	No. Births	No. Deaths	IMR
*1891	445,058	67,842	N/A
1892	897,270	132,603	148
1893	914,182	145,297	159
1894	889,239	121,918	137
1895	921,860	148,305	161
1896	917,201	135,487	148
1897	921,104	143,814	156
1898	922,873	148,249	161
1899	928,640	151,218	163
1900	926,154	142,943	154
1901	929,270	140,711	151
1902	877,400	116,638	133
1903	N/A	N/A	N/A
Total	10,499,261	1,596,026	162

Source: Derived from the Quarterly Returns of Births & Infant Deaths of the Registrar General, 1891-1902.

* = 1st July to 31st December only

consistent fact emerging from the data (Table 3), is that the inhabitants of Lydbury North Sub-District experienced higher rates of infant mortality than inhabitants of Norbury Sub-District. The rate for Lydbury North was 84% higher than that for Norbury, and this very large difference in rates between two adjoining, rural sub-districts is worthy of note; the chi-square test shows that this difference is statistically significant.

A further interesting point to be gleaned (Table 3) lies in the year by year comparison between the IMRs in the two sub-districts and in England and Wales as a whole. I observed that although the IMRs in Norbury were consistently lower than that for England and Wales, this was not the case in Lydbury North, where there were two years – 1898 and 1902 – when the rates that I calculated exceeded the national rate. Bearing in mind the common view that Urban IMRs were generally higher than Rural IMRs (Chapter 2, p.18) and also the view expressed by Woods, Watterson & Woodward (1988, p.357) that the national IMRs were heavily influenced by the Urban rates of infant mortality, this finding seems of significance. It indicates that the IMR in Lydbury North in those years was higher than the IMRs in urban areas of England and Wales during those years.

I have not been able to explain why the inhabitants of Lydbury North experienced such high incidence of infant mortality in these years, not least because the MOH Reports for the County of Shropshire for the years in question make no mention of this. In treating Clun R.S.D. the Report for 1898 stated that "The death returns are below the average and compare favourably with those for England and Wales"(p.23). There is no doubt that the IMR in Lydbury North in that year was higher than the IMR in other locations in Clun R.S.D. This can be appreciated when one considers that of the fourteen infant deaths stated by the MOH to have occurred in the R.S.D., six of them occurred in the sub-district of Lydbury North (Table 2). In the County MOH Report for 1902 it was stated (p.9) that the

County IMR was 102.7, and the rural rate was 92.7 – well below the rate for England and Wales (133). In this context, the rate that I have calculated for Lydbury North – 171 – was extremely high.

Within the overall IMR statistics, Table 4 shows the considerable differences that I found in the rates for individual parishes. These ranged from a rate of 130 infant deaths per 1000 births in Edgton (Lydbury North Sub-District) to 16 infant deaths per 1000 live births in More (Norbury Sub-District). The presence of such large variations in the experience of infant mortality, even in such small communities, bears out the relevance of Lee's thesis.

Table 4.

Infant Mortality Project – Births & Deaths Statistics, analysed by location.

Norbury & Lydbury North, July 1891 – December 1902.

	Births	Infant Deaths	Infant Mortality Rate
Norbury	76	5	66
Wentnor	115	9	78
Ratlinghope	59	1	17
More	62	1	16
Myndtown	5	0	0
Total: Norbury Sub-District	317	16	50
Lydbury North	230	19	83
Edgton	54	7	130
Hopesay	181	17	94
Total: Lydbury North Sub-District	465	43	92
Norbury & Lydbury North Sub-Districts Combined			
Norbury Sub-District	317	16	50
Lydbury North Sub-District	465	43	92
Total	782	59	75

Note: Infant Mortality Rates, 1902 (Source: MOH Report, Shropshire, 1902):-

England and Wales	133
Shropshire	103

Notes: (a) Infant Mortality Rate = Infant Deaths per 1,000 births.

(b) Locations shown as recorded in Vaccination Registers

His view that the decline in infant mortality from c1900 was not consistent in all geographical areas, but occurred at different rates in different places (Lee, C.H. (1991), pp. 56/57), seems valid in considering the structure of infant mortality in the 1890s.

Comparison of the IMRs for individual parishes in the two sub-districts to the national IMR shows that only one location - Edgton - had an IMR that equalled the rate of 133 per 1000 births which England and Wales experienced in 1902. The other locations in my area of study had IMRs that were well below these figures, and all were lower than the IMR for the county of Shropshire in 1902.

Infant Mortality - Quarterly Analysis

In an effort to discover whether infant mortality in the area under study was more frequent at a particular time of the year, I analysed my results for the whole period of my research in this context (Table 5). This analysis has been carried out at Registration Sub-district level, showing the IMR for each quarter of the year. My results show that in Norbury the quarterly variation is not particularly pronounced, but the pattern revealed shows that IMRs were generally higher during the second and fourth quarters, which each had a IMR of 56 deaths per 1000 births. In Lydbury North it is clear that there was a considerably higher IMR in the first and second quarters than in the rest of the year. The rate during the second quarter was 130 infant deaths per 1000 births, which is very significantly higher than that in the other quarters. Clearly, the infants in both Norbury and Lydbury North were at increased risk of death during the second quarter of the year, but that risk was considerably greater in Lydbury North.

The pattern revealed by quarterly analysis of infant mortality in England and Wales is significantly different from my results for Norbury and Lydbury North (Table 5). The statistics of the Registrar General reveal that IMRs in England and Wales during the 1890s peaked in the third quarter of the year. This trend has been ascribed to a series of unusually

hot summers, resulting in a high incidence of cases of diarrhoea (Woods, R.I., Watterson, P.A., & Woodward, J.H., 1988, p. 360). It could be that the pattern I have discovered in my study was not particularly unusual, bearing in mind that the national statistics of infant mortality were significantly affected by urban trends. If hot summers coupled with poor quality water supplies were causing increased infant deaths through diarrhoea,

Table 5.

Births & Infant Deaths by quarter.

Norbury & Lydbury North, July 1891 – December 1902.

	Births Number	Births % of Total	Deaths Number	Deaths % of Total	Infant Mortality Rate
Totals - Norbury					
First Quarter	64	20	2	13	31
Second Quarter	90	28	5	33	56
Third Quarter	74	23	3	20	41
Fourth Quarter	89	28	5	33	56
Total	317	100	15	100	47

Note: a further infant death, included in the project totals, occurred during the first quarter of 1903.

	Births Number	Births % of Total	Deaths Number	Deaths % of Total	Infant Mortality Rate
Totals - Lydbury North					
First Quarter	109	23	11	28	101
Second Quarter	123	28	16	37	130
Third Quarter	108	23	8	19	74
Fourth Quarter	125	27	8	19	64
Total	465	100	43	100	92

	Births Number	Births % of Total	Deaths Number	Deaths % of Total	Infant Mortality Rate
Consolidated Totals					
First Quarter	173	22	13	22	75
Second Quarter	213	27	21	36	99
Third Quarter	182	23	11	19	60
Fourth Quarter	214	27	13	22	61
Total	782	100	58	100	74

Source: Vaccination Registers for Norbury & Lydbury North, Shropshire.

	Births Number	Births % of Total	Deaths Number	Deaths % of Total	Infant Mortality Rate
Total - England & Wales					
First Quarter	2,531,211	24	366,905	23	145
Second Quarter	2,539,051	24	316,198	20	125
Third Quarter	2,747,787	28	514,273	32	187
Fourth Quarter	2,672,202	25	397,651	25	149
Total	10,490,251	100	1,595,025	100	152

Source: Derived from the Registrar General's Quarterly Returns of Births & Infant Deaths.

Note: Infant Mortality Rate = Number of infant deaths per 1,000 births.

one would expect this to be a worse problem in urban areas, where the population densities were much greater. None of the MOH Reports that I have read mentioned seasonal or quarterly variations in IMRs, so it appears that the MOH did not regard this as a problem

It would be interesting to develop this aspect of my research; one could analyse infant mortality data relating to other sub-districts in Clun Registration District, and see whether a similar trend to that observed in Norbury and Lydbury North occurred in these places. One could also seek the reasons behind this variation in IMRs, but it would be necessary to obtain cause of death information to do this, and I have mentioned elsewhere in this thesis the difficulties posed by such research (see p.13).

Population Density & Overcrowding as factors in Infant Mortality

Barbara Thompson, (1984, pp.123-124) pointed to conditions of high population density, with consequent overcrowding, as being a significant factor in the incidence of high IMRs. If such conditions existed in the area of my research, it would appear highly relevant to the view expressed in my hypothesis, as we may expect that over-crowding would occur most often in conditions of poverty. I obtained the data in Appendix 2 from Census Enumerators Books. It enables me to look at this aspect of infant mortality in the individual villages and hamlets in the sub-districts of Lydbury North and Norbury in the 1890s.

My area of study was a region of low population density, and declining population. In the ten years covered by my research, the combined population in these districts fell by approximately 10%, from 3,054 to 2,660. By comparison, during the same period the population in England & Wales increased by approximately 12%. As the number of houses in the area of my research declined by approximately 10%, there was little overall change in the number of persons per house between 1891 and 1901. According to the MOH Report

for Shropshire (1902) the average persons per house in the rural areas of Shropshire in 1902 was 4.6, which is only slightly above the figure for Norbury and Lydbury North combined in 1901. The comparable statistic for England & Wales in 1901 was 5.2 persons per house, which was very similar to the figure for 1891..

Looking at the figures for the hamlets and villages of Norbury and Lydbury North in 1891 (Appendix 2), we see marked differences in the populations per house between the various locations. Overall, the average for Norbury was slightly higher than that for Lydbury North, and so this statistic seems inversely related to the respective IMRs.

It should be noted that a higher population per house does not necessarily indicate over-crowding, as it may well be that the larger households were living in larger houses.

Unfortunately, although the 1891 CEBs show the number of rooms for households living in less than five rooms, they do not show similar data in respect of households living in higher numbers of rooms. This makes it impossible to calculate population density statistics at this level.

Appendix 2 shows that although in both sub-districts there were villages or hamlets where most or all of the homes contained less than five rooms, (e.g. Knowle and Ritton in Norbury and Brunslow, Perry Gutter and Old Field in Lydbury North) overall, the majority of houses in the two sub-districts were of five rooms or more. In Norbury Sub-District generally, these houses appear to have been fairly large buildings, possibly a large number of them were old farm houses; With an average population per house of just under five in both sub-districts, it appears that over-crowding was not a common problem in these two Registration Sub-Districts.

I have included (Appendix 2), data showing the number of households who were living in less than five rooms, and shown these as a percentage of the total number of households. This information shows that in Lydbury North, 50% of households were occupying less than five rooms; the comparable figure for Norbury was 45%.

In order to relate population density data to my research, I have sought to record, in respect of all the families I traced who experienced infant deaths, the number of rooms they were living in. This data is mainly derived from the 1891 CEBs. In one case I have deduced the information from information in a Rate Book, whilst in another case I have traced the house, but not the family on the 1891 CEB. I realise that the building could have been altered in the period between the date of the census and the occupation of the family included in my work, but I think it reasonable to assume that no such alteration was made.

It will be seen (Appendix 3) that I was not able to trace the required information in a number of cases. In Norbury I was successful in 52% of cases of infant mortality. 70% of cases in which I was able to find this data were living in households occupying five rooms or more. In Lydbury North, this exercise was less productive. I was able to trace this material in 42% of cases; 61% of cases in which I was able to find this data were living in households occupying five rooms or more.

Whilst I have little doubt that there were cases in which overcrowding contributed to infant mortality, it will be appreciated from the above that, in general terms, conditions of high population density did not exist to a significant extent in the area of my research. It seems likely that this fact was partly responsible for the relatively low IMRs that I have identified.

Infant Mortality Variations within the area – an Environmental Examination.

I find it difficult to account for the variations in IMRs within the sub-districts, as the sources at my disposal do not appear to deal with this. This suggests that, given the comparatively low overall IMRs in Clun Rural Sanitary District and in the County of Shropshire (see Table 4) Medical Officers of Health, and other influential persons, did not see infant mortality as a problem.

If we consider the situation in the parish of Wentnor, in Norbury sub-district, we note that there were lead mines in the area. By the 1890s these mines had closed, but we may deduce that their poisonous residues may well have polluted the water supplies in the area, with consequent effect on the health of the local population. Additionally, if some of the parents of children born in the area in my period had lived there from childhood, their health may have been adversely affected by exposure to pollution caused by the lead mines. If this were so, it could have caused their children to be born less healthy than would otherwise have been the case, and thus contributed to infant mortality in my period. I have found no mention of such pollution in the Annual Reports of the Medical Officer of Health. I note from the Minutes of the Sanitary & Rivers Pollution Committee of Shropshire County Council that on 25th February 1899 (p.183) it was recorded that there was a need to improve water storage at Clody Well, in Wentnor. I have no way of knowing whether any of the infant deaths in this parish were due to contaminated water.

The minutes of the Sanitary and Rivers Pollution Committee of Shropshire County Council (p.228) record how, in 1900, the local people of Wentnor had responded to a demand from the council for improved water supplies to Wentnor by stating that they were not in favour of incurring expense in this cause. The problem of local opposition to proposed improvement to water supplies had been referred to by the Medical Officer of Health in his Annual Report for Shropshire, 1889 (p.6), when he commented that public complaints

about the lack of accessible and wholesome supplies of drinking water were difficult to deal with, due to "legal problems". It seems that the problem of local opposition to such improvements had not changed appreciably during the 1890s.

The evidence cited above gives an indication of the opposition that the local authorities encountered in seeking to improve living conditions in my period, but such opposition does not appear to have been unusual. Barbara Thompson relates how similar opposition was mounted against proposed improvements to housing and water supplies etc. in Bradford in the nineteenth century (Thompson, B., 1984, p.146).

When I compare IMRs in Lydbury North sub-district those in Norbury sub-district, I encounter further difficulty in ascribing causes for the higher figures. If we look at the situation as regards sanitary arrangements, the state of affairs in Clun Rural Sanitary District left much to be desired. The Medical Officer of Health, in his report for 1898 (p.23) described these arrangements as "fragmentary and unsatisfactory". The Report of the Local Government Board's Inspector (1905) described the sanitary conditions in Lydbury North in graphic terms, relating how "sewage (finds) its way into watercourses and roadside gutters" (p.4). The same source highlighted the poor state of housing in the sub-district, pointing to many cases of damp. In some cases this was caused by a lack of maintenance, but other cases exemplified ignorance of either (a) the unsuitability of certain building sites, or (b) certain unhygienic everyday practices. One example of the latter was a case in which a heap of manure was piled against a house, causing "percolation of offensive matter into the building"(p.2).

The water supply in Lydbury North was, reportedly, improving by the 1900s. The County MOH Report of 1902 (p.47) stated that at that time one third of Lydbury North had "a private gravitation supply of good upland spring water" - but what, we may ask, of the

other two thirds? The Report of the Local Government Board's Inspector (1905) pointed to the poor quality of the water supply (pp.3-4).

It seems reasonable to deduce that factors such as those mentioned above contributed to the problem of infant mortality during my period. However, the absence of detailed information about causes of death makes it impossible to ascribe reasons for the statistics detailed above. In pursuit of detailed information on the structure of infant mortality in Lydbury North and Norbury sub-districts, I now move to more minute consideration of local data resulting from my research.

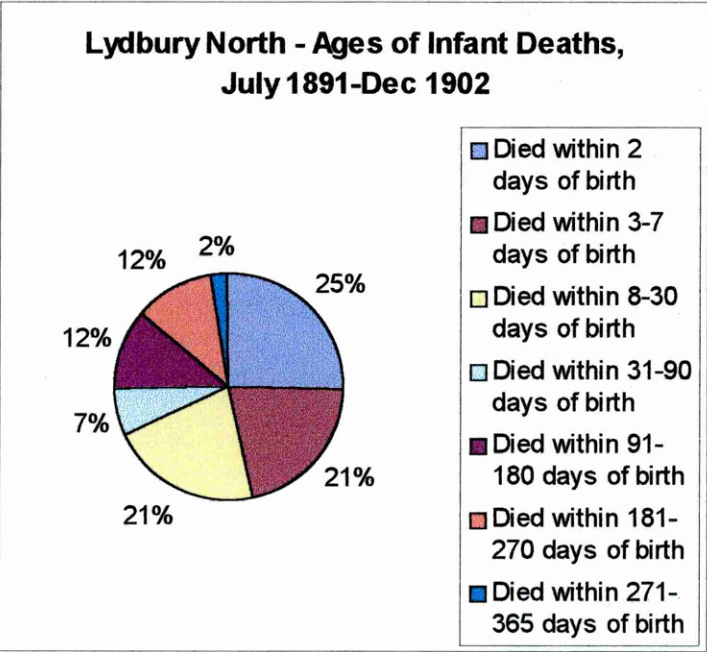
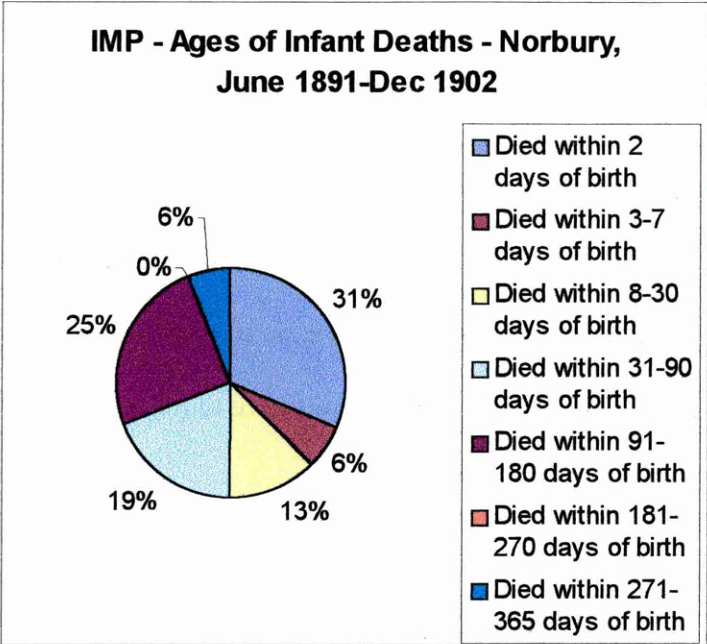
The fruits of Nominal Record Linkage

I mentioned, in chapter 1 (p. 4), that I have employed the technique known as Nominal Record Linkage, using parish registers of births, marriages, and deaths for the parishes situated in my area of research. I have also utilised the 1891 Census Enumerators' Books and the core source for this project - the Vaccination Registers of Births. By combining the data from these sources I have sought to develop a multi-faceted view of infant mortality in the area and time frame of my research, in order to test the hypothesis stated on page 5 above.

(a) Neo-Natal Mortality

Consideration of Table 6 reveals that in both Lydbury North and Norbury in my period, there was a high incidence of neo-natal mortality. There were differences in the percentages of total infant deaths in each sub-district that occurred in the first few days after birth, but in both locations a very significant proportion of infant deaths fell into this category. In Norbury, 37% of infant deaths occurred within seven days of birth, and 50% of infant deaths occurred before the age of thirty days. In Lydbury North 46% of infant

Table 6.



deaths occurred within seven days of birth, and 67% of infant deaths occurred before the age of thirty days. This finding confirms the observation made by Newman nearly 100 years ago (1906, p.40), that much infant mortality occurred within a few days of birth. I have attempted to analyse the information that I have collected in relation to neo-natal mortality by occupation, in order to ascertain the extent to which this phenomenon was influenced by poverty. Part of this exercise has been the classification of households in which infant deaths occurred by reference to the occupation of the father. In carrying out this work I have used the system of social classification designed by Armstrong (see Appendix 5 and Drake, M. & Finnegan, R., with Eustace, J., 1994, pp. 48-49).

I mentioned above the difficulty that I encountered when dealing with occupational data concerning farmers. I wanted to establish whether each of these farmers should be placed in Armstrong's social classification 2, or in his social classification number 3, and this was not possible from the bare occupational information in the Vaccination Registers. I adopted several complementary methods in dealing with this problem. In the case of farmers traced on the 1891 Census Enumerators' Books, I have noted how many employees they had, and whether they had household servants. I have utilised Mills's method of classification (Mills, D. R. & Mills, J., 1989, pp.67/68) by linking the information on these persons in *Kelly's Directory* (1900) to that in CEBs. Mills's theory is that farmers listed in the Directories are likely to have been of a higher social status than those who were not so listed.

In order to confirm the social status of farmers in my survey, I have used the 1881 CEBs for Norbury and Lydbury North, and the Rate Books and Valuation Lists for Lydbury North (these last named sources are not available for Norbury). The 1881 CEBs contained information giving the acreages of farms, and as acreage was used by Armstrong in deciding the social classification of Farmers (Drake, M. & Finnegan, R., with Eustace, J.,

1994, p. 48), this information, where traceable, has enabled me to allocate the appropriate classifications (Appendix 3). There are problems with this strategy, however. If, on either the 1881 CEB or the 1891 CEB, the name of the farm concerned was not stated, this can lead to a problem in identifying the size of a particular farm with certainty. An example of this occurred in Edgton, a parish in the sub-district of Lydbury North. In seeking to identify the size of an unnamed farm that was occupied by a particular person in 1891 I found two farms recorded in the 1881 CEB for Edgton. One of these farms was very large, whilst the other was very small. Which was "my" farm? I was able to resolve this situation by checking the information that I had against that in the Rate Books and Valuation Lists. All the farmers who suffered infant deaths in their families during the period of my research were found to belong to Armstrong Classification 2.

Table 7(a) links data about the ages at which infants died in the period and area of my research to the occupation of the parents. Table 7(b) presents the same information, analysed using the Armstrong Social Classifications (Appendix 5). Out of the six infant deaths in Norbury which occurred within seven days of birth between June 1891 and December 1902, four of the children were the offspring of farmers; the other two were the offspring of labourers. This finding is somewhat unusual, as it has often been held that infant mortality was more likely to occur in poorer families (Woods, R.I., Watterson, P.A., & Woodward, J.H., 1988, p. 363). Given the high proportion of infant deaths that occurred in the first few days after birth, one would expect this finding to apply to neo-natal mortality. I have not been able to explain the local deviation from the norm, save for my comments above.

Three of the farmers whose infants died under seven days old were resident in Wentnor; the other case occurred in the village of More. Two of the cases in Wentnor occurred in families where the mother was aged over 30. In one case the mother was aged 34, and is

known to have had at least 5 previous children. In the other case the mother was aged 37, and had given birth on at least 7 previous occasions. In the case that occurred in More, the mother was aged 29 years, and I do not know of her having given birth previously.

Table 7(a)

Age of infant deaths analysed by occupation.

Norbury & Lydbury North, July 1891 – December 1902

	Age 0-2 Days	Age 3-7 Days	Age 8-30 Days	Age 31-90 Days	Age 91-180 Days	Age 181-270 Days	Age 271-365 Days	Total
Norbury R.S.D.								
Farmer	3	1	0	3	2	0	0	9
Labourer	2	0	1	0	0	0	1	4
Shoemaker	0	0	0	0	1	0	0	1
Gen. Servant (F) (Illeg)	0	0	1	0	0	0	0	1
Occupation Unknown (Illeg)					1			1
Total R.S.D.	5	1	2	3	4	0	1	16
Lydbury North R.S.D.								
Farmer	1	2	1	0	0	0	0	4
Labourer	7	4	5	3	4	2	1	26
Postman	1	0	0	0	0	1	0	2
Occupation Unknown (Illeg)	0	1	0	0	0	0	0	1
Domestic Servant	1	0	0	0	0	0	0	1
Wheelwright/Carpenter	0	2	0	0	0	2	0	4
Platelayer (Ry.)	1	0	2	0	0	0	0	3
Gamekeeper	0	0	1	0	0	0	0	1
Signalman (Ry)	0	0	0	0	1	0	0	1
Total R.S.D.	11	9	9	3	5	5	1	43
Consolidation								
Farmer	4	3	1	3	2	0	0	13
Labourer	9	4	6	3	4	2	2	30
Postman	1	0	0	0	0	1	0	2
Occupation Unknown (Illeg)	0	1	0	0	1	0	0	2
Gen. Servant (F) (Illeg)	1	0	1	0	0	0	0	2
Wheelwright/Carpenter	0	2	0	0	0	2	0	4
Platelayer (Ry.)	1	0	2	0	0	0	0	3
Gamekeeper	0	0	1	0	0	0	0	1
Signalman (Ry)	0	0	0	0	1	0	0	1
Shoemaker	0	0	0	0	1	0	0	1
Consolidated Total	16	10	11	6	9	5	2	59

Table 7(b)

Age of infant deaths analysed by Armstrong Social Classification

Norbury & Lydbury North, July 1891 – December 1902

Armstrong Category	Age 0-2 Days	Age 3-7 Days	Age 8-30 Days	Age 31-90 Days	Age 91-180 Days	Age 181-270 Days	Age 271-365 Days	Total
Norbury R.S.D.								
2	3	1	0	3	2	0	0	9
3	0	0	0	0	1	0	0	1
4	0	0	1	0	0	0	0	1
5	2	0	1	0	0	0	1	4
N/k	0	0	0	0	1	0	0	1
Total R.S.D.	5	1	2	3	4	0	1	16
Lydbury North R.S.D.								
2	1	2	1	0	0	0	0	4
3	0	2	0	0	1	2	0	5
4	3	0	3	0	0	1	0	7
5	7	4	5	3	4	2	1	26
N/k	0	1	0	0	0	0	0	1
Total R.S.D.	11	9	9	3	5	5	1	43
Consolidated total								
2	4	3	1	3	2	0	0	13
3	0	2	0	0	2	2	0	6
4	3	0	4	0	0	1	0	8
5	9	4	6	3	4	2	2	30
N/k	0	1	0	0	1	0	0	2
Total	16	10	11	6	9	5	2	59

In considering the data in Table 7(a) in respect of Lydbury North, the reader will note that the pattern of high incidence of infant deaths under seven days old in farmers' families which occurred in Norbury was repeated in that sub-district, although the numbers involved were smaller. Of the four infant deaths in families of farmers in Lydbury North, three of them occurred within the first seven days. This suggests that the result found at Norbury may not be a freak. The high proportion of deaths to the children of labourers is more in keeping with the pattern that one may expect to find, bearing in mind my above comments in relation to class, and supports my hypothesis.

Taking Lydbury North and Norbury together, we see that the occupational group with the highest percentage of infant mortality over the 10.1/2-year period was labourers. However, we are left with the problem of how to account for the difference between the results of this research in the two sub-districts.

(b) Parish-Level Analysis of Infant Mortality

One of the advantages of my micro-level study is that I am able to analyse my data at parish, rather than sub-district level. Out of sixteen cases of infant mortality in Norbury sub-district, ten occurred in Wentnor (40% within seven days of birth - see Table 8 below). In Lydbury North sub-district, out of 43 cases of infant mortality, seventeen occurred in Hopesay (59% of these cases died within seven days of birth). The parish of Lydbury North had a similar IMR to that of Hopesay, but had only six cases of death within the first seven days.

Table 8

Age of infant deaths, analysed by location.

Norbury & Lydbury North, July 1891 – December 1902

	Age 0-2 Days	Age 3-7 Days	Age 8-30 Days	Age 31-90 Days	Age 91-180 Days	Age 181-270 Days	Age 271-365 Days	Age Total
Norbury R.S.D.								
<u>Parish</u>								
More	1	0	0	0	0	0	0	1
Norbury	0	0	1	1	1	0	1	4
Ratlinghope	1	0	0	0	0	0	0	1
Wentnor	3	1	1	2	3	0	0	10
Total R.S.D.	5	1	2	3	4	0	1	16
Lydbury North R.S.D.								
<u>Parish</u>								
Edgton	3	1	2	0	0	1	0	7
Hopesay	6	4	3	1	2	1	0	17
Lydbury North	2	4	4	2	4	2	1	19
Total R.S.D.	11	9	9	3	6	4	1	43
Consolidated total	16	10	11	6	10	4	2	59

(c) Family-Level Analysis of Infant Mortality

Appendix 3 shows the linkages that I have made between sources, to build a picture of the families that experienced infant mortality. There are limitations to the effectiveness of this work. I mentioned in chapter 3 (p. 25) that my recording of the marriages in the Anglican parish registers in my area of research was of little value to my research. I was only able to link this information to other data in five cases - two in Norbury and three in Lydbury North. I mentioned above that this may suggest that a large number of the people involved in these events had migrated to Norbury or Lydbury North, but in some cases it may be that the people involved were Catholics or Protestant non-conformists. I have identified one Catholic family, - the family of Thomas Everall of Eyton, Lydbury North - using monumental inscriptions recorded at Plowden Catholic Burial Ground, and one Primitive Methodist family- the family of Thomas Powell Davies - using the register of baptisms for the Chun circuit of that denomination.

A further problem occurs in using this method, insofar as the Census Enumerators' Books are concerned. The records of the 1891 census were very useful in identifying parents who had infant deaths in their family in the period 1891-C1894. However, in the later years of my period this source was of less value. Presumably some people were untraceable because they had changed their place of residence since 1891, moving either into or within the sub-districts. Others may have married and set up their household between the 1891 census and the date of the infant death. If the 1901 CEBs were available to me I am confident that I would be able to add considerably to my nominal record linkage exercise. However, this source will not be available until the end of the one hundred years closure, in the year 2002 - too late for my research!

It will be noted that I was unable to link people to the CEBs with certainty in seven cases in Norbury sub-district, and in twenty-eight cases in Lydbury North. The failure to link

people to CEBs does not mean that I have found no useful material in those cases. In many cases I have traced baptisms of other children in the family, and this has enabled me to build up data on family sizes. Clearly, if my work is to encompass consideration of the mother's age at the time of birth, access to either the CEBs or a marriage record is required. I realise that the value of my work is weakened by the absence of these pieces of information. However, I have limited sources at my disposal, and such problems are difficult to overcome, particularly in the short time frame that I am researching.

At this point, a few words of explanation regarding Appendix 3 may be of help to the reader. The purpose of this appendix is to display all the information that I found regarding each of the infant deaths that I traced, to better facilitate the linkage of this information. Appendix 3(a) relates to infant deaths in Norbury Sub-District, and Appendix 3(b) relates to Lydbury North Sub-District. The data spreads over several sheets, which need to be placed alongside one another in page number order, with page 1 on the far left. The reference number allocated to the child in the Vaccination Register is shown in the far-left column of each page, in order to enable the reader to link easily the information on each page. The surname and forenames of each child are shown in the second and third columns on the first page. The other columns of this listing show, in respect of each infant death, all the information that I have traced about the child, his or her parents, and the residence of the family. I now consider this information in more detail, dealing first with Lydbury North sub-district.

Table 9 shows the information I have traced regarding the relationship between the age of mothers and infant mortality. It will be seen that of the sixteen instances of infant mortality in Lydbury North for which I have identified the ages of the mother at time of

Table 9.

Age of mothers giving birth to infants who died in infancy, analysed by parish of residence.

Norbury & Lydbury North, July 1891 – December 1902

	Age of Mother							
	<20	20-25	26-30	31-35	36-40	41-45	Unknown	Total
Norbury R.S.D.								
Parish								
More	0	0	1	0	0	0	0	1
Norbury	0	0	0	0	0	0	4	4
Ratlinghope	1	0	0	0	0	0	0	1
Wentnor	0	2	1	1	3	0	3	10
Total R.S.D.	1	2	2	1	3	0	7	16
Lydbury North R.S.D.								
Parish								
Edgton	0	0	0	1	1	1	4	7
Hopesay	0	1	0	1	3	0	12	17
Lydbury North	0	1	1	4	1	1	11	19
Total R.S.D.	0	2	1	6	5	2	27	43
Consolidated total	1	4	3	7	8	2	34	59

birth, 80% of them occurred in cases where the mother was aged 31 or above. In eleven of these cases the mother was aged 34 or above. This may suggest that the age of the mother was a significant factor in the structure of infant mortality in the 1890s.

Table 10 displays the data that I have collected regarding the relationship between the number of children born to a mother and infant mortality. It will be noted that, taking the two sub-districts combined, I was unable to collect this data in 21 cases out of a possible 59, and that there is, therefore, scope for this aspect of my work to be extended.

Another point to note is the difficulty of ascertaining precise data concerning parents who had not produced any children before the case under study. If the parents were married within a few months of the birth, I infer that the child in question was probably their firstborn. However, in cases in which the parents had been married for a longer period of

Table 10

Age of mothers giving birth to infants who died in infancy, analysed by number of previous known births

Norbury & Lydbury North, July 1891 – December 1902.

No. Previous Known Births to Same Mother	Age of Mother						Unknown	Total
	<20	20-25	26-30	31-35	36-40	41-45		
Norbury R.S.D.								
1	1	1	0	0	0	0	1	3
2	0	0	0	0	0	0	2	2
3	0	0	0	0	0	0	0	0
4	0	0	1	0	1	0	0	2
5	0	0	0	1	1	0	0	2
6	0	0	0	0	0	0	0	0
7	0	0	0	0	1	0	0	1
8	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0
Unknown	0	1	1	0	0	0	4	6
Total R.S.D.	1	2	2	1	3	0	7	16
Lydbury North R.S.D.								
0	0	0	1	0	0	0	0	1
1	0	1	0	1	0	0	6	8
2	0	1	0	2	0	0	4	7
3	0	0	0	1	1	0	0	2
4	0	0	0	0	1	0	0	1
5	0	0	0	0	0	0	0	0
6	0	0	0	2	1	0	0	3
7	0	0	0	0	0	1	0	1
8	0	0	0	0	1	1	0	2
9	0	0	0	0	1	0	0	1
Unknown	0	0	0	0	0	0	17	17
Total R.S.D.	0	2	1	6	5	2	27	43
Consolidated total								
	1	4	3	7	8	2	34	59

time, the fact that I may not have traced the birth of a previous child does not necessarily mean that such a birth did not take place. They may have had other children who were baptised or registered elsewhere.

In Lydbury North (Table 10), of 26 cases in which I have been able to establish family sizes, 7 of them involved families in which the mother had given birth to 6 or more previous children (30%). In fact, these seven cases occurred in two families. The data for Lydbury North contains no known instance of infant mortality where the mother was less than 23 years of age. It should be noted that I have failed to ascertain the ages of the mothers in the two cases of illegitimacy.

Appendix 4 details the seven cases that I have identified in which more than one infant death occurred in the same family. The layout of this appendix is similar to Appendix 3, but this table shows only the families in Lydbury North who experienced more than one infant death in my period. Cases of infant mortality in these families, which occurred outside the period of my research, are shown in *Italics*. As I mentioned in Chapter 3, this research has been enhanced greatly by my use of church burial records, which have enabled me to trace information outside the time-frame of my research; in some cases this is essential if one is to trace families which experienced multiple infant deaths.

The Green family, of Edgton, is of particular interest. This family experienced four cases of infant mortality, two within the period of my study and two before 1891. The Greens had at least five other children, who appear to have survived infancy. The infant deaths occurred in two short periods; two consecutive infants, born in 1880 and 1882, both died. The family then produced three babies who survived infancy, only to encounter the two cases of infant mortality that fell into my research period, in 1892 and 1896. None of the

Green infants whose deaths I have traced survived beyond thirteen days; two of them died on the day of their nativity; and one died on the fourth day.

The father of these children was an agricultural labourer. On the 1891 census the family is shown to be living in a house with only three rooms. It seems apparent that this was a poor family, but before we decide that this was a case of poverty-induced infant mortality we need to consider other factors. Possibly the infant deaths experienced by this family were due to genetic factors?

My data contains one case of the death of a pair of twins - the Corfields - in 1893. The mother of these children was aged 31, and had given birth to at least six previous children over an eleven-year period. All these children were alive at the time of the 1891 census. The father was a labourer.

The birth of twins appears to have been a particularly hazardous experience for mother and children in 1893, especially as skilled care does not seem to have been available for the persons involved. The 1895 MOH Report for Shropshire includes reference to an initiative to train six female midwives, due to a fall in the number of midwives available at that time. A comment was made (p.10) to the effect that a high percentage of deaths had occurred from "accidents of childbirth" in rural districts, as opposed to Urban districts. It is apparent that the authorities were trying to address the problem of lack of skilled care for mothers and infants, but I think that six midwives to cover all the rural areas of Shropshire cannot have provided anything like adequate cover.

In addition to the risks that were involved in giving birth to twins, it should be noted that the Corfields were a large family; it seems likely that they were poor. The same appears to have been true of the Morris family, who had the misfortune to suffer two cases of infant

mortality within two years. This family suffered from a number of seemingly inauspicious factors. The mother was aged 38 years when the first known infant death occurred in 1892, and the family already had eight children at that date. Given the fact that the father of this brood was an Agricultural Labourer, I conclude that this family was living in poverty.

I have traced two cases in which a mother and child both died shortly after birth.

John Thomas Anslow and his mother both died in July 1900, being buried at Edgton. The child was eleven days old; his father was a certain Thomas Anslow, who was a Platelayer on the Railway.

May Davies and her mother died in June 1893 and May 1893 respectively. May was a twin; and her mother died within 13 days of the births. May died aged 28 days. Both mother and child were buried at Lydbury North. This case adds weight to the evidence, mentioned above in relation to the Corfield family, of the danger of giving birth to twins in the 1890s.

I assume that Thomas Anslow, mentioned above, must have re-married, because in 1902 he fathered another child. This female child died aged one day, not having been named. It seems uncommonly bad luck for a man to have two children by two different women within two years, only for both of them to die shortly after birth. Possibly this may indicate a genetic cause of infant death - the gene being passed on by the father? Alternatively, this could have been caused by poor living conditions. We should note that Platelayers featured lowly in the occupational hierarchy - I have placed them in Armstrong Category 4.

The final case of multiple infant deaths in the same family that I traced occurred in the family of James Arthur Edwards, a Farmer at Broome, Hopesay. Evidence from the Valuation List for Hopesay (1900) shows that the James Edwards occupied property that

extended to 400 acres. As such, he was a very substantial Farmer, and should, I judge, be regarded as a prosperous man. I have placed him in Armstrong Social Classification 2. One wonders why a family such as this should experience two cases of infant mortality within the period 1900-1902? The experience of this family shows that my hypothesis cannot be entirely correct.

The data for Norbury (Appendix 3(a)) contains no cases of multiple infant mortality in the same family. I have already mentioned the high proportion of infant deaths that occurred in the families of Farmers, and this is the most striking aspect of this material. Norbury had only one known case of infant mortality in families with six or more previous children and only two identified cases of infant mortality where the mother was aged 34 or over. This different pattern of infant mortality in Norbury, compared to Lydbury North, may be due to a difference between the two sub-districts in the respective number of births to wives of Farmers and Labourers.

(d) Occupational Analysis of Infant Mortality – Variations between Sub-Districts

In treating the occupational make-up of the population in the areas under consideration, I decided not to obtain my data by calculating the sum of the persons living in the area who were employed in the various occupations. I made this decision because I am interested in studying people of child-bearing age, and data obtained in such a way would include people of all ages, many of whom would seem unlikely to be producing children.

Additionally, any such information would only relate to 1891, the year of the CEBs available to me. In order to obtain relevant information I decided to calculate the proportion of births in the period July 1891 - December 1902 that related to each employment category. I accept that this method does not provide me with data relating to people who did not produce children during my period, but believe that the information

will be more relevant to my project because (a) it relates to child-producing men, and (b) it covers the whole of the period.

The result of this exercise insofar as it relates to Farmers and Labourers is that in Lydbury North 256 births out of a total of 463 were the children of Labourers (55%), whilst 60 infants were born to the wives of Farmers (13%). In comparison, in Norbury, out of a total of 318 births, 114 were the children of Farmers (36%), whilst 67 were the children of Labourers (21%). These findings suggest that the social structures of the two sub-districts were different, at least in respect of people of childbearing age. Although, as I previously mentioned, the IMR for Farmers in Norbury seems to have been unusually high, we need to bear in mind that the overall IMR in Norbury, with its high proportion of resident Farmers, was considerably lower than that for the neighbouring sub-district of Lydbury North, with its high proportion of resident Labourers. This tends to support my hypothesis.

(e) Neo-Natal Mortality related to Social Structure.

The reader will have noted my above findings regarding the differing social structures of the communities of Lydbury and Norbury sub-districts in the 1890s. I think it reasonable to suggest that this may account for the differences in IMRs between the two sub-districts (See Table 3, p.37). This lends support to my hypothesis, as it indicates that neonatal infant mortality was higher in areas that were less prosperous economically

The high incidence of infant mortality in the first days after birth suggests to me that poor nutrition of mothers and/or children may have been a significant factor, and this point was treated by Newman (1906, pp. 88-89). I have no information regarding the incidence of premature births in my area and period, but wonder whether this may have been a common occurrence, related to poor nutrition and hard working life which many of the mothers may well have had to cope with. One may assume that the wives of labourers had a heavy work

load, but this may have been equally true of the wives of farmers, many of whom probably worked on their farms.

I mentioned above (pp. 46-47) the comments of the Local Government Board Inspector (1905), which suggest that there must have been a poor standard of cleanliness in the facilities for water supply and sanitation, and it seems likely that these factors would have contributed to neo-natal mortality. I have shown (page 45) that MOH reports inform us that attempts were being made to address such issues, but progress was slower than the local authorities wished, partly due to local opposition.

The attraction of explanations such as these is that they can account for the existence of infant mortality in communities that appear to have differed substantially in their social make-up. A contaminated water supply may be expected to have affected all people whose supplies originate from the source in question. The disadvantage of these explanations is that it is impossible to prove that they are correct; thus the debate about the nature of late nineteenth century infant mortality, outlined in chapter 2, continues!

5. Conclusions

In this final chapter I shall consider briefly the main points of interest, which arise from my research. I shall comment on their significance to (a) the continuing academic debate on the reasons for the decline of infant mortality and (b) the value of my findings in the context of the project to which I am contributing.

We cannot learn about the reasons for the decline in infant mortality that occurred over the period 1871-1948 without first ascertaining the causes of the problem of late nineteenth century infant mortality. My work has been aimed at providing a detailed, localised view of the problem as it existed in South Shropshire one hundred years ago.

As far as I am aware, the research that I have carried out is unique. I have already pointed out the novelty of the core source for my work, and the calls that have been made by various academics for micro-level research into a subject that has been mainly treated on a macro level. My work is aimed at filling a gap in our knowledge on the subject of infant mortality particularly as it deals with a small, rural area, rather than a major town. I hope that it will provide meaningful material for use in the overall project in which I am participating, and also stand on its own as a significant contribution to knowledge on this subject.

I mentioned in Chapter 1 (pp. 5-7) the issues which I have concentrated on in my work, and I shall now consider each of these briefly. In doing this, I shall arrive at an evaluation of the hypothesis that has been the basis of my work.

If my hypothesis is correct in its explanation of the causes of infant mortality, one would expect to find that many of the mothers giving birth to children who died as infants were in the older child-bearing years. This is because it is based on an assumption that infant mortality occurred in large families, and it seems reasonable to assume that the more children a woman had produced, the older she was likely to be. For the purposes of this exercise I have assumed that women aged 34 or above may be considered to be rather old for the rigours of childbirth in the 1890s, but I realise that this assumption may be contentious. Anderson states that, in general, people tended to marry later in the 1890s than they do today (Drake, M. (ed.), 1994, p.79) and it could therefore be argued that 34 was not particularly old for childbirth at the dates under consideration. I would counter this by suggesting that the fact that later marriage was more common one hundred years ago than now does not necessarily mean that women over 34 were not at greater risk in giving birth than younger women.

In spite of the fact that the numbers with which I have dealt have been small, making it less than safe to generalise from my results, my study has enabled me to look at this issue at a very low level. In so doing, I have been able to make some tentative suggestions regarding the effect on infant mortality of the age of mothers. In Norbury I found that just under 50% of the children who died in infancy, and for whom I was able to discover the mother's age, had mothers of the age of 34 or over. In Lydbury North the comparable percentage was 66%. These figures suggest that there may be some validity in the theory that older mothers were more likely to produce children who died in infancy in the late nineteenth century.

I have taken great pains to collect information that would enable me to consider, in depth, the issue of family size in cases of infant mortality. As Appendices 3(a) & 3(b) show, I was able to gather information showing the size of families in which infant deaths occurred

in Norbury in eleven cases (68% of the total number of cases). In Lydbury North I obtained similar information in 26 cases (60% of the total number of cases). I have shown that in Lydbury North 30% of these cases occurred in families of six children or more. In Norbury I only found one such case (9%).

Whilst the data for Norbury would suggest that this aspect of my hypothesis is of doubtful validity, the material for Lydbury North suggests that this may not be so. It will be necessary for this aspect of my work to be further explored by other researchers in other geographical areas in order to arrive at a more certain conclusion.

The issue of the social status of the families I encountered who experienced infant mortality has proved interesting. I have shown (Table 7(b), p.52) that in Norbury the highest proportion of infant deaths occurred in Armstrong Classification 2, whilst in Lydbury North, the counterpart to this was Armstrong Classification 5. This seems to reflect the difference in social make-up of the two sub-districts.

I have shown that this aspect of my findings in the case of Norbury is very unusual, and contradicts not only my hypothesis, but also the conventional wisdom, which is that infant mortality was most common among the lower classes. The data for Lydbury North, however, shows the opposite result, and supports my hypothesis. Which of these findings, if either, is correct?

I think that it is reasonable to take a cumulative set of data from both sub-districts to arrive at an overall view, which, we may hope, will help to resolve the dichotomy in my findings. Table 7(b) shows the results of this exercise, and demonstrates that 51% of cases of infant mortality in the two sub-districts occurred in Armstrong Classification 5. If we take this a stage further, and combine Armstrong Categories 4 and 5, we find that 64% of cases of

infant mortality in the two sub-districts occurred in families in which the father was a member of one of these groups. I regard this as strong evidence in support of my hypothesis.

I think that this last finding is crucial to my research, as it underpins my other conclusions. As I showed in Chapter 2, several of the academics, who have written on the subject from different viewpoints, have expressed the view that poverty was a significant factor of infant mortality in the late nineteenth and early twentieth century. I have in mind McKeown (p.9 above), Thompson (p.9 above), Szreter (p.11. above), & Newman (p.12 above). If my finding that social class was a significant factor in infant mortality in the late nineteenth century is correct, it lends support to the view that poverty was a meaningful element in the problem. In such circumstances I would expect that the mothers would not be in prime physical condition, resulting in the children being born in a weakened state. This would be likely to result in the high rates of neo-natal infant mortality that other researchers and I have identified. Whilst my results have not proved that large families were a major factor in infant mortality, they have indicated that this may be the case. Additionally, I have shown that only one of the cases of multiple infant deaths that I found occurred in an Armstrong social classification higher than 4 (Appendix 4). The larger the family, the harder the mother would have had to work, and, in a poor family, the more likely it was that she would not enjoy good health; thus, I suggest, the cycle of events often continued.

I think it likely that other aspects of the problem of infant mortality that I have mentioned, such as poor housing, and insanitary conditions, played their part in some or all of the cases of infant mortality that I have treated. However, I have not been able to find sufficient evidence regarding these aspects of the problem to enable me to reach valid conclusions.

Perhaps the most significant result of my research is my discovery of the variance between the experience of infant mortality in Norbury and Lydbury North sub-districts in the last years of the nineteenth century. These two areas are adjacent to one another and their geographical situation and features are such that, apart from administrative reasons, there seems no reason for them to be treated separately. However, by my use of the Vaccination Registers and a series of sources that are essentially local in nature, I have discovered significant differences between the experiences of infant mortality in the two sub-districts. These differences encompass not only the rates of infant mortality, but also the social classification of families who endured the loss of infants, the social make-up of the populations of child-bearing age in the two sub-districts, and the sizes of the families in which infant deaths occurred. These differences do not only apply between the two sub-districts: I have shown (Table 4, p.39) that there were variances in the experience of infant mortality between parishes within each sub-district, and this analysis could be extended further, to treat individual hamlets and villages within the sub-districts. These differences could not have been identified by the use of the type of macro-level sources used by most previous researchers into my subject, and justify the calls made by Williams and Galley and others for more micro-level studies in this field (1995, p.420).

The type of local differences that I have identified in Norbury and Lydbury North sub-districts justify the decision, taken by the Project Directors, to seek to widen our knowledge by finding micro-scale evidence of the causes of infant mortality in the late nineteenth century. Differences such as those that I discovered must, I believe, exist in other areas. One's ability to carry out the type of micro-level work which I have described is limited to the availability of sources, but there must be many other locations, besides those being covered by my fellow researchers who are participating in the overall project, which can be researched in detail. If the potential to carry out this type of research could be

realised, I believe that the results obtained would be a very significant addition to our of knowledge of the structure of infant mortality in England and Wales in the late nineteenth century. Hopefully, we could then attempt a resolution of the conundrum that is the subject of the project organised by Prof. M. Drake and Dr. P. Razzell.

Appendices

1. **Listing of Nominal Information contained in Primary Sources**
described in chapter 3 of thesis. p.76

2. **Population per House, Norbury & Lydbury North**
Sub-Districts, 1891. p.78

- 3(a). **Listing - nominal record linkage: Infant deaths,**
Norbury, July 1891-Dec 1902. p.81

- 3(b). **Listing - nominal record linkage: Infant deaths,**
Lydbury North, July 1891- Dec 1902 p.87

3. **Listing - nominal record linkage: Families with multiple**
infant deaths, Lydbury North, July 1891-Dec 1902. p.93

5. **Armstrong's social classification for York, 1851.** p.101

6. **Map of South Shropshire, showing the position & relief of**
Norbury & Lydbury North Sub-Districts. p.103

7. **Potential Sources of Possible Use in Studying Infant**
Mortality in Shropshire during the 19th & 20th Centuries. p.104

8. **Description of appended item.** p.114

Primary Sources.

Note: Locations of Sources are indicated by the number in brackets after the description.

1. Vaccination Registers of Births, July 1891-December 1902: -

Norbury Sub-District - Source Ref. PL6/252. (1)

Lydbury North Sub-District, - Source Ref. PL6/250 & PL6/251. (1)

2. Parish Registers of Baptisms, Marriages & Burials for the following Church of England parishes: -

More (1), Norbury (1), Ratlinghope (1), Myndtown (2), Wentnor (3) (all in Norbury Sub-District).

Edgton (4), Hopesay (1), Lydbury North (4) (all in Lydbury North Sub-District).

3. Baptism Registers of Clun Circuit Primitive Methodists & Wesleyan Methodists, transcribed and held by Dr. M.E. Wilson.

4. Census Enumerators' Books (1891): -

Norbury, Ref. RG12/25087. (1)

Lydbury North, Ref. RG12/2088. (1)

5. Annual Reports of the Medical Officer of Health, Clun Sanitary District: -

1889, ref. SC 1/1C 2/8. (5)

1890, ref. SC 1/1C 2/40. (5)

1892, ref. SC1/1C 2/74. (5)

1896, ref. SC 1/1C 2/98. (5)

6. Annual Reports of the Medical Officer of Health, Shropshire County:-

1895, ref. SC1/1C 1/1. (5)

1898, ref. SC1/1C 1/2. (5)

1899, ref. SC1/1C 1/3. (5)

1902, ref. SC1/1C 1/6. (5)

7. Minutes of the Sanitary & Rivers Pollution Committee of Shropshire County Council,

1889-1901, ref. SC5/1A. (5)

8. *Dr. Reginald Farrar's report to the Local Government Board on the sanitary circumstances and administrations of the Clun Rural District, Salop (1905), H.M.S.O.*

9. Kelly's Directory of Shropshire (1): -

1891 & 1900.

10. Rate Book, Lydbury North, 1896, Ref. P177/L/3/80. (1)

11. Valuation List for the Parish of Hopesay, 11th February 1898, Ref. PL6/278. (1)

12. Annual and Quarterly Returns of Births and Deaths of the Registrar General, 1891-1902.

Key to Locations of Sources:-

(1) Shropshire Records & Research Centre, Castle Gates, Shrewsbury, Shropshire.

(2) Held in the church at Myndtown, Shropshire. Access was made available to me by Mr.M.Corfield, Churchwarden.

- (3) Held at the church at Wentnor. Access was made available to me by Rev. R.T. France.
- (4) Held at the Church at Lydbury North. Access was made available to me by Rev.

A.F. Denyer.

- (5) Shropshire County Council, Records Management Service, Shirehall, Shrewsbury, Shropshire.

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Appendix 1

Listing of Nominal Information contained in Primary Sources described in Chapter 3 of Thesis

1. **Vaccination Register.**
 - a) Number of entry in Birth Register.
 - b) Date of Birth
 - c) Place of Birth
 - d) Name of Child
 - e) Sex
 - f) Name & Surname of the father (or, in cases of illegitimacy, the mother)
 - g) Rank, Occupation or Profession of the parent
 - h) Date on which Notice of Vaccination was given
 - i) To whom Notice of Vaccination was given
 - j) Date of Medical Certificate of Successful Vaccination
 - k) Date of Certificate of Insusceptibility or of having had smallpox
 - l) Name of the medical man by whom the certificate is signed
 - m) Date of Death in case of child being dead before vaccination
 - n) Reference to consecutive number in the Officer's Report Book I cases transferred thereto
2. **Parish Register of Baptisms.**
 - a) Date of Baptism
 - b) Child's Forename (Christian Name)
 - c) Parent's Forename (Christian Name)
 - d) Parent's Surname
 - e) Abode
 - f) Quality, Trade or Profession of parent
 - g) By whom the ceremony was performed
3. **Parish Register of Marriages**
 - a) Number in Register
 - b) When married
 - c) Name & surname of Bride & Groom
 - d) Ages of Bride & Groom
 - e) Condition of Bride & Groom (Marital Status)
 - f) Rank or Profession of Bride & Groom
 - g) Residence of Bride & Groom
 - h) Name & Surname of Father of Bride & Groom
 - i) Rank or Profession of Father of Bride & Groom
 - j) Signatures of Bride & Groom
 - k) Signatures of Witnesses
 - l) Certification by person carrying out the ceremony
4. **Parish Register of Burials**
 - a) Name of Deceased
 - b) Abode of Deceased
 - c) Date of Burial
 - d) Age of Deceased
 - e) By Whom the Ceremony was performed

Appendix 1

Listing of Nominal Information contained in Primary Sources described in Chapter 3 of Thesis (Contd.)

5. 1891 Census Enumerators' Books (CEBs)

- a) Number of Schedule
- b) Address
- c) Whether house was inhabited or uninhabited
- d) Number of rooms if less than five
- e) Name & Surname of each person
- f) Relation to Head of Family
- g) Condition as to Marriage
- h) Age last birthday (male/female)
- i) Profession or Occupation
- j) Employer/Employee/Neither Employer or Employee
- k) Where Born
- l) Entry showing cases in which the person was Deaf & Dumb/Blind/Lunatic

Note: 1881 CEBs excluded items d and j. They included information showing the acreage of farms, which has been used in this research to ascertain the social classification of Farmers who's children died in infancy.

6. Electoral Registers

- a) Name & Surname of each person on the register
- b) Place of Abode
- c) Nature of Qualification
- d) Address of property by which the elector is qualified to vote

7. Valuation Lists

- a) Number of Assessment
- b) Name of Occupier
- c) Name of Owner of Property
- d) Description of Property
- e) Name or Situation of Property (Location)
- f) Estimated Extent (Acreage)
- g) Gross Estimated Rental
- h) Ratable Value of Agricultural Land
- i) Ratable Value of Buildings
- j) Details of any arrears.

8. Rate Books

- a) Reference Number
- b) Name of Occupier
- c) Name of Owner
- d) Description of Property Rated
- e) Name or Situation of Property (Location)
- f) Estimated Extent (Acreage)
- g) Gross Estimated Rental
- h) Ratable Value
- i) Rate at 9.1/2d in the pound
- j) Total to be Collected
- k) Amount Collected

Appendix 2 (p.1)
Population per House, Norbury Lydbury North R.S.D.s 1891

Data from 1891 CEB - Norbury R.S.D. RG12/2087

Location (Hamlet or Village)	Inhabited Houses	Uninhabited Houses	< 5 Rooms Houses	Population	Pop. Per House
Whitcott	5	1	0	24	4.80
Hardwick	3	0	2	21	7.00
Norbury Village	28	2	13	137	4.89
Clapper	1	0	0	4	4.00
Walk Mill	8	1	5	23	2.88
More	35	6	18	178	5.09
Rattinghope	42	9	19	222	5.29
Wertnor	45	3	12	198	4.40
Medlicott	5	1	3	26	5.20
Adstone	7	0	0	40	5.71
The Home	2	1	1	13	6.50
Kinnerton	10	0	5	55	5.50
Knowle	10	0	9	36	3.60
Cold Hill	3	0	0	13	4.33
Ritton	44	8	39	202	4.59
Asterton & Prollomore etc	31	0	3	127	4.10
Myndtown	5	0	0	30	6.00
Total	284	32	129	1,349	4.75

Data from 1891 CEB - Lydbury North R.S.D. RG12/2088

Location	Inhabited Houses	Uninhabited Houses	< 5 Rooms Houses	Population	Pop. Per House
Brockton	31	2	16	116	3.74
Acton	18	3	11	69	3.83
Lower Down	18	2	9	84	4.67
Lydbury North	69	1	41	322	4.67
Dinmore	1	0	1	3	3.00
Totterton	13	0	8	62	4.77
Eaton	2	0	0	12	6.00
Eyton & Plowden	14	1	4	76	5.43
Choulton	16	0	8	83	5.19
Hill End	2	0	0	15	7.50
Old Church Moor	4	1	0	24	6.00
Hordeley	5	0	1	19	3.80
Ridgway	6	0	5	26	4.33
Dunslow & Basford	6	0	3	22	3.67
Edgton	17	2	5	95	5.59
Brunslow	6	0	2	23	3.83
Perry Gutter	8	0	8	38	4.75
Old Field	3	0	3	12	4.00
Hopesay Hill	2	1	2	13	6.50
Longville Common	3	0	2	9	3.00
Carwood	3	1	2	18	6.00
Round Oak	9	2	8	27	3.00
Basford	5	1	3	18	3.60
Cabin	4	0	3	12	3.00
Hopesay	14	1	2	65	4.64
Red Lane	4	0	2	20	5.00
Fish	6	0	3	28	4.67
Taddysmoor	1	1	0	7	7.00
Aston on Clun	39	4	15	186	4.77
Broome	21	1	6	98	4.67
Long Meadow End	9	0	5	42	4.67
Oaker	4	0	2	22	5.50
Little Brampton	7	0	4	39	5.57
Total	370	24	184	1,705	4.61

Population Density 1891 and 1901

Norbury and Lydbury North RSDs, Shropshire, and England + Wales

Summary**Sub-District: Norbury**

<u>1891</u>					<u>1901</u>				
<u>Population</u>	<u>Inhabited Houses</u>	<u>Acres</u>	<u>Pop. Per House</u>	<u>Acres per House</u>	<u>Population</u>	<u>Inhabited Houses</u>	<u>Acres</u>	<u>Pop. Per House</u>	<u>Acres per House</u>
1,349	284	20,834	4.75	73.71	1,122	260	20,834	4.32	80.52

Sub District: Lydbury North

<u>1891</u>					<u>1901</u>				
<u>Population</u>	<u>Inhabited Houses</u>	<u>Acres</u>	<u>Pop. Per House</u>	<u>Acres per House</u>	<u>Population</u>	<u>Inhabited Houses</u>	<u>Acres</u>	<u>Pop. Per House</u>	<u>Acres per House</u>
1,705	370	14,033	4.61	37.93	1,538	335	14,033	4.59	41.89

Consolidation: Lydbury North & Norbury Sub-Districts

<u>1891</u>					<u>1901</u>				
<u>Population</u>	<u>Inhabited Houses</u>	<u>Acres</u>	<u>Pop. Per House</u>	<u>Acres per House</u>	<u>Population</u>	<u>Inhabited Houses</u>	<u>Acres</u>	<u>Pop. Per House</u>	<u>Acres per House</u>
3,054	654	34,967	4.67	59.47	2,660	595	34,967	4.47	58.77

Shropshire County

<u>1891</u>					<u>1901</u>				
<u>Population</u>	<u>Inhabited Houses</u>	<u>Acres</u>	<u>Pop. Per House</u>	<u>Acres per House</u>	<u>Population</u>	<u>Inhabited Houses</u>	<u>Acres</u>	<u>Pop. Per House</u>	<u>Acres per House</u>
236,339	49,681	859,516	4.76	17.30	239,321	51,484	859,516	4.65	16.69

England & Wales

<u>1891</u>					<u>1901</u>				
<u>Population</u>	<u>Inhabited Houses</u>	<u>Acres</u>	<u>Pop. Per House</u>	<u>Acres per House</u>	<u>Population</u>	<u>Inhabited Houses</u>	<u>Acres</u>	<u>Pop. Per House</u>	<u>Acres per House</u>
29,002,525	5,541,497	37,317,885	5.23	6.73	32,526,075	6,266,496	37,317,885	5.19	5.96

Sources:**Norbury**

1891 Population & Housing Data = 1891 CEB, RG12/2087.

1901 Population & Housing Data = 1901 Preliminary Census Report, Table XVI, p. 103.

Acreage Data = 1901 Preliminary Census Report, Table III, p. 3.

Lydbury North:

1891 Population & Housing Data = 1891 CEB, RG12/2088.

1901 Population & Housing Data = 1901 Preliminary Census Report, Table XVI, p. 103.

Acreage Data = 1901 Preliminary Census Report, Table III, p. 3.

Shropshire County

All Data = 1901 Preliminary Census Report, Table III, p. 3.

England & Wales

All Data = 1901 Preliminary Census Report, Table III, p. 3.

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Appendix 3(a) - Nominal Record Linkage: Infant Deaths re children born at Norbury, July 1891-December 1902.

Notes: This Appendix consists of three pages																
VR No.	Surname	First Name(s)		Sex	Leg/illeg	Date Born	Date Baptised	Baptised		Religious	Date Died	Age Days	Birthplace	Sub-District	Father	
		Child						Location	Denom.						Name(s)	Age
185	Ellison	Minnie Nesta	F	L	25 Aug 1891	04 Oct 1891	Wentnor	N/K	CE	23 Nov 1891	80	Ashgrove, Wentnor	Norbury	John	30	
186	Pearce	Emma	F	L	26 Aug 1891	N/K	N/K	N/K	N/K	23 Nov 1891	89	The Knowles, Wentnor	Norbury	William	37	
188	N/K	Mary	F	Illeg	01 Oct 1891	01 Oct 1891	Norbury	Norbury	CE	25 Oct 1891	24	Walk Mill, Norbury	Norbury	N/K	N/K	
202	Harris	Jane	F	L	14 Feb 1892	N/K	N/K	N/K	N/K	16 Feb 1892	2	Squiller, Wentnor	Norbury	Joseph	34	
225	Rowson	Unnamed	F	L	13 Oct 1892	N/K	N/K	N/K	N/K	13 Oct 1892	1	The Snape, Ratlinghope	Norbury	George	28	
231	Edwards	Lilian Emma	F	L	05 Dec 1892	27 Dec 1892	Wentnor	Wentnor	CE	24 Apr 1893	140	Birchop, Wentnor	Norbury	John	29	
241	Betton	Lillie	F	L	10 May 1893	11 May 1893	Wentnor	Wentnor	CE	12 May 1893	2	Kinnerton, Wentnor	Norbury	Edward	46	
259	Robinson	Jessie	F	L	08 Nov 1893	29 Nov 1893	Wentnor	Wentnor	GE	02 Dec 1893	24	Upper Mill, Wentnor	Norbury	Joseph	N/K	
261	Hughes	Mary	F	L	05 Nov 1893	N/K	N/K	N/K	N/K	11 Apr 1894	157	Stowbatch, Wentnor	Norbury	Thomas	40	
359	Thomas	Ethel	F	L	06 Jul 1897	06 Jul 1897	More	More	CE	06 Jul 1897	1	Pitcholds, More	Norbury	Charles	42	
422	Groves	Albert	M	L	05 Oct 1899	25 Oct 1899	Norbury	Norbury	CE	22-Aug-1900	291	Quarry Cottage, Norbury	Norbury	Albert Edward	N/K	
429	Reynolds	Gladys	F	L	05 Dec 1899	21-Jan-1900	Wentnor	Wentnor	CE	27-May-1900	173	Wentnor	Norbury	Thomas	38	
444	Howard	Sarah	F	L	05-Oct-1902	28-Oct-1900	Norbury	Norbury	CE	03-Jan-1901	90	Whitcott, Norbury	Norbury	William Henry	N/K	
484	Littlehales	Unnamed	M	L	16-Jun-1902	N/K	N/K	N/K	N/K	16-Jun-1902	1	Overs, Wentnor	Norbury	William James	N/K	
486	Rowson	Unnamed	M	L	23-Jul-1902	N/K	N/K	N/K	N/K	28-Jul-1902	5	Medicott, Wentnor	Norbury	George	29	
497	N/K	Arthur Thomas	M	Illeg	29-Nov-1902	30-Dec-1902	Myndtown	Myndtown	CE	25-Apr-1903	147	Handless, Norbury	Norbury	N/K	N/K	

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Appendix 3(a) - Nominal Record Linkage: Infant Deaths re children born at Norbury, July 1891-December 1902.

VR No.	Father Occupation	Father Employer X	Mother First Name	Mother Maiden Name	Mother Age	Mother Occupation	Previous Children	1891 CEB Address	1891 CEB Ref.	Other Source(s) Address
185	Farmer	X	Elizabeth		25		1	Ashgrove, Wentnor	RG12/2087: F.28, p.2	
186	Farmer		Anne		38		5	Calves Knowles, Wentnor	RG12/2087: F.35, p.2	
188	N/k		Mary Jane	Evans	N/k	General Servant	N/k	N/k	N/k	
202	Farmer		Jane		34		5	Squiller, Wentnor	RG12/2087: F.35, p.1	
225	Farm Labourer		Hannah		19		1	The Snape, Gatten, Rattlinghope	RG12/2087: F.21, p.6	
231	Farmer	See note	Emma	Beaumont	24		0	England Shelve, Wentnor	RG12/2087: F.28, p.2	Mar. CE Wentnor, 10/11/1892
241	Farmer		Sarah		37		7	Kimerton	RG12/2087: F.35, p.1	MI Wentnor
259	Gen. Labourer		Mary		N/k		N/k	N/k	N/k	
281	Farmer	X	Sarah		29		4	Stowbach, Wentnor	RG12/2087: F.28, p.8	
359	Farmer		Beatrice	Mellings	29		N/k	N/k	RG12/2087: F.14, p.5	Mar. Pitcholds, More, 05/12/1894
422	Labourer		Maggie		N/k		2	N/k	N/k	
429	Shoemaker	X	Lydia Elizabeth		36		4	Wentnor	RG12/2087: F.28, p.4	
444	Farmer		Ann Cox		N/k		2	N/k	N/k	
484	Gen. Labourer		N/k		N/k		N/k	N/k	N/k	
486	Farmer		Alice		N/k		1	Medicott, Wentnor	RG12/2087: F.30, p.9	
497	N/k		Elizabeth	Finches	N/k	Not stated	N/k	N/k	N/k	Handless

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Appendix 3(a) - Nominal Record Linkage: Infant Deaths re children born at Norbury, July 1891-December 1902.

VR No.	Notes	Farm 1881 CEB Ref	Farm Acreage 1881	No. Rooms 1891 CEB	Armstrong Social Classification
185	CEB: Farm Servant, m., 17	RG11/2821, f.41, p.10	114	5+	2
186		N/k	N/k	4	2
188				N/k	4
202	CEB: Farm Servant, M., 18:	RG11/2821, f.54, p.14	356	5+	2
225		N/k	N/k	N/k	5
231	CEB: Farmer's Son - Father's H'hold	RG11/2821, f.41, p.11	120	5+	2
241	CEB: 2 Servs, M. Ages n/k:2nd inf dth (Ernest, 1891)	RG11/2821, f.54, p.13	170	5+	2
259				N/k	5
281	CEB: Farm Servant, m, Age n/k	RG11/2821, f.40, p.7	28	3	2
359	CEB-Head=mother, farmer. Inherited farm?	RG11/2821, f.21, p.4	80	5+	2, 3
422	Other source = Baps, Norbury: CEB: (building traced)			4	5
429	M.I. Wentnor: CEB:			5+	3
444	Other source = Baps, Norbury: M.I. Norbury	RG11/2821, f.7, p.6	71	N/k	2
484				N/k	5
486	Poss CEB: Head = father, Farmer, employee. Bap Wentnor 1801:	RG11/2821, f.40, p.8	95	5+	2, 3
497	Bap & Bur Myndtown			N/k	N/k

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Appendix 3(b) - Nominal Record Linkage: Infant Deaths re children born at Lydbury North, July 1891-December 1902

VR No.	Surname	First Name(s)			Sex	Leg/Illeg	Date Born	Date Baptised	Baptised Location	Religious Denom.	Date Died	Age Days	Birthplace	Sub-District	Father First Name(s)	Father Age
		Child														
441	Rickards	Gertrude	F	L		23 May 1892	25 May 1892	Lydbury	CE		26 May 1892	3	Lynch Gate, Lydbury North	Lydbury N.	Richard	46
442	Jones	Sarah Ann	F	L		24 Apr 1892	24 Apr 1892	Hopessy	CE		19 Aug 1892	116	Aston on Clun, Hopessy	Lydbury N.	John	40
446	Addie	Thomas James	M	L		07 Jun 1892	10 Jun 1892	Lydbury	CE		10 Jun 1892	3	Five Turnings, Lydbury North	Lydbury N.	Thomas	27
463	Mason	John William	M	L		31 Aug 1892	01 Sep 1892	Hopessy	CE		05 Sep 1892	6	Long Meadow End, Hopessy	Lydbury N.	John	N/K
464	Green	Jonathan	M	L		09 Sep 1892	09 Sep 1892	Edgton	CE		09 Sep 1892	1	Edgton	Lydbury N.	George	42
471	Morris	Sarah	F	L		25 Dec 1892	N/K	N/K	N/K		25 Dec 1892	1	Little Brampton, Hopessy	Lydbury N.	Philip	38
477	Corfield	Owen	M	L		08 Jan 1893	N/K	N/K	N/K		23 Jan 1893	17	Choulton, Lydbury North	Lydbury N.	Edward	38
478	Corfield	Eva	F	L		08 Jan 1893	N/K	N/K	N/K		23 Jan 1893	17	Choulton, Lydbury North	Lydbury N.	Edward	36
485	Woodhouse	Anna	F	L		07 Mar 1893	09 Apr 1893	Hopessy	CE		12 Apr 1893	35	Oakton, Hopessy	Lydbury N.	William	N/K
487	Davies	May	F	L		11 May 1893	14 May 1893	Lydbury	CE		08 Jun 1893	28	Lower Down, Lydbury North	Lydbury N.	Samuel	31
13	Rogers	Arthur John	M	L		09 Sep 1893	22 Oct 1893	Lydbury	CE		09 May 1894	242	Brookton, Lydbury North	Lydbury N.	John	37
14	Morris	James	M	L		27 Oct 1893	N/K	N/K	N/K		28 Oct 1893	2	Little Brampton, Hopessy	Lydbury N.	Philip	39
16	Morgan	John Henry	M	L		16 Nov 1893	N/K	N/K	N/K		16 Nov 1893	1	Broome, Hopessy	Lydbury N.	William	31
28	N/K	No Name	M	Illeg		23 Feb 1894	N/K	N/K	N/K		25 Feb 1894	2	Red Lane, Hopessy	Lydbury N.	N/K	N/K
41	Pugh	William George	M	L		20 Sep 1894	25 Sep 1894	Lydbury	CE		16 Jan 1895	119	Acton, Lydbury North	Lydbury N.	Richard	N/K
71	N/K	Mabel Emmie	F	Illeg		17 May 1895	N/K	N/K	N/K		20 May 1895	3	Basford, Hopessy	Lydbury N.	N/K	N/K
113	Smellman	Hilda Mary	F	L		28 Apr 1896	N/K	N/K	N/K		27 Apr 1896	2	Edgton	Lydbury N.	Richard	227
118	Higgins	Vernon John	M	L		19 Jun 1896	19 Jun 1896	Lydbury	CE		22 Jun 1896	3	Little Folley, Lydbury North	Lydbury N.	John	N/K
141	Green	Herbert	M	L		23 Nov 1896	24 Nov 1896	Edgton	CE		07 Dec 1896	14	Burnslow, Edgton	Lydbury N.	George	46
160	Jones	Dorothy Annie	F	L		21 May 1897	13 Jun 1897	Hopessy	CE		20 Oct 1897	152	Acton on Clun, Hopessy	Lydbury N.	William John	N/K
168	Griffiths	Henry	M	L		13 Aug 1897	12 Sep 1897	Hopessy	CE		27 Feb 1898	196	Brook House, Hopessy	Lydbury N.	Arthur	23
170	Maddewe	Ernest William	M	L		29 Apr 1897	N/K	N/K	N/K		12 Apr 1898	226	Edgton	Lydbury N.	Edward	37
182	Hughes	Thomas	M	L		22 Jan 1898	24 Jan 1898	Lydbury	CE		24 Jan 1898	2	Lynch Gate, Lydbury North	Lydbury N.	Richard	N/K
187	Blakeney	Sybil Matilda	F	L		02 Feb 1898	08 Mar 1898	Lydbury	CE		28 Nov 1898	300	Argos, Lydbury North	Lydbury N.	Edward	38
191	Hutchings	Thomas	M	L		02 Apr 1898	N/K	N/K	N/K		22 Apr 1898	20	Acton on Clun, Hopessy	Lydbury N.	Thomas	N/K
204	Biggs	William Henry	M	L		02 Sep 1898	N/K	N/K	N/K		26 Sep 1898	24	New Cottages, Broome, Hopessy	Lydbury N.	George	397
214	Rudge	George Henry	M	L		10 Dec 1898	18 Dec 1898	Lydbury	CE		02 Mar 1899	82	Brookton, Lydbury North	Lydbury N.	Thomas	
234	Morgan	Sarah Ann	F	L		28 May 1899	18 Jun 1899	Lydbury	CE		17-Feb-1900	297	Brookton, Lydbury North	Lydbury N.	Richard	N/K
244	Pugh	Alfred John	M	L		06 Aug 1899	N/K	Lydbury	CE		14-Feb-1900	196	Acton, Lydbury North	Lydbury N.	Richard	N/K
263	Williams	Joseph	M	L		16 Oct 1899	22 Oct 1899	Lydbury	CE		04-Apr-1900	170	The Leasly, Lydbury North	Lydbury N.	George	N/K
267	Fletcher	Roland	M	L		28 Nov 1899	20-Jan-1900	Lydbury	CE		24-Jan-1900	57	Lydbury North	Lydbury N.	George	49
282	Anslow	John Thomas	M	L		28-Jun-1900	N/K	N/K	Meth?		07-Jul-1900	11	Hordeley, Edgton	Lydbury N.	Thomas	N/K
284	Edwards	Evan	M	L		11-Jul-1900	11-Jul-1900	Hopessy	CE		18-Jul-1900	7	Broome, Hopessy	Lydbury N.	James Arthur	N/K
309	Everall	Rose Hilda	F	L		25-Mar-1901	N/K	N/K	RC		01-Apr-1901	7	Eyton, Lydbury North	Lydbury N.	William	377
317	Robinson	Thomas	M	L		10-Feb-1901	N/K	N/K	N/K		17-Jul-1901	157	The Leasly, Lydbury North	Lydbury N.	Herbert	N/K
319	Jones	Thomas Bacon	M	L		18-Jul-1901	N/K	N/K	N/K		21-Jul-1901	3	The Farm, Hopessy	Lydbury N.	Thomas Stephen	N/K
328	Davies	Jack	M	L		23-Jan-1902	N/K	N/K	Meth		25-Jan-1902	2	Foley Farm, Lydbury North	Lydbury N.	Thomas Powell	39
337	Martin	Ivy	F	L		30-Mar-1902	10-Apr-1902	Lydbury	CE		12-Apr-1902	13	The Limes, Lydbury North	Lydbury N.	Albert Barker	N/K
341	Edwards	Doris Emily Evelyn	F	L		02-May-1902	02-May-1902	Hopessy	CE		24-May-1902	22	Broome, Hopessy	Lydbury N.	James Arthur	N/K
345	Anslow	Unrnamed	F	L		17-Jun-1902	N/K	N/K	N/K		18-Jun-1902	1	Hordeley, Edgton	Lydbury N.	Thomas	N/K
346	Watkins	John	M	L		28-Jun-1902	N/K	N/K	N/K		29-Jun-1902	1	Little Brampton, Hopessy	Lydbury N.	John	N/K
368	Mills	Albert	M	L		05-Dec-1902	N/K	N/K	N/K		10-Dec-1902	5	Barn Cottage, Edgton	Lydbury N.	John	N/K
369	Lloyd	No Name	M	L		16-Oct-1902	N/K	N/K	N/K		17-Oct-1902	1	Acton on Clun, Hopessy	Lydbury N.	Edward	N/K

(Notes: This Appendix consists of three pages)

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Appendix 3(b) - Nominal Record Linkage: Infant Deaths re children born at Lydbury North, July 1891-December 1902

VR No.	Father Occupation	Father Employer X	Mother First Name	Mother Maiden Name	Mother Age	Mother Occupation	Previous Children	1891 CEB Address	1891 CEB Ref.	Other Source(s) Address
441	Ag. Lab.		Elizabeth		40		3	Lynch Gate, Lydbury North	RG12/2088: F.18, p.11	
442	Ag. Lab.		Jane		36		4	Acton on Clun	RG12/2088: F.52, p.7	
446	Ag. Lab.		Sarah		24		2	The Five Turnings, Lydbury North	RG12/2088: Fo.17, p.10	
453	Carpenter		Elizabeth		N/k		N/k	N/k	N/k	Long Meadow End
454	Ag. Lab.		Maria		39		6	Cottage, Edgton	RG12/2088: F.32, p.4	Bruslow Cottage (1893-5); Edgton
471	Ag. Lab.		Charlotte		38		8	Little Brampton, Hopsey	RG12/2088: F.56, p.15	
477	Lab. in Woods		Mary A.		31		6	Choulton	RG12/2088: F.25, p.4	
478	Lab. in Woods		Mary A.		31		6	Choulton	RG12/2088: F.25, p.4	
485	Ag. Lab.		Sarah		N/k		N/k	N/k	N/k	Oaker or Oaker Cottage Brook Cottage, Acton
497	Ag. Lab.		Martha		34		2	Brook House, Acton	RG12/2088: F.7, p.7	
13	Carpenter & Wheelwright Master		Sarah		34		3	Brookton	RG12/2088: F.4, p.2	Brookton
14	Ag. Lab.		Charlotte		39		9	Little Brampton, Hopsey	RG12/2088: F.56, p.15	
15	Ag. Lab.		Elizabeth		31		1	(2, Bath Gate Terrace, Broome, Hopsey	RG12/2088: F.52, p.8.	
25	N/k		Emma	James	N/k	Dom. Servant	N/k	N/k	N/k	
41	Ag. Lab.		Elizabeth		N/k		N/k	N/k	N/k	Acton
71	N/k		Kate	Morgan	N/k	N/k	N/k	N/k	N/k	
113	Ag. Lab.		N/k		N/k		N/k	N/k	N/k	Edgton
118	Ag. Lab.		Louisa		N/k		N/k	N/k	N/k	Little Foiley
141	Ag. Lab.		Maria		43		8	Cottage, Edgton	RG12/2088: F.32, p.4	Bruslow Cottage (1893-5); Edgton
160	Ry. Signaller		Mary Anne		N/k		2	N/k	N/k	N/k
168	Rural Postman		Sarah Ann	Calne	23		1	N/k	N/k	Hopsey
170	Carpenter		Susannah	Mullard	31		2	Cottage, Edgton	RG12/2088: F.34, p.7	Edgton
182	Lab.		Caroline		N/k		N/k	N/k	N/k	Lynch Gate
187	Lab. in Woods		Mary Ann	Edwards	28		0	N/k	N/k	Argood
191	Ag. Lab.		N/k		N/k		N/k	N/k	N/k	
204	Ry. Platelayer		N/k		N/k		1	(2, Bath Gate Terrace, Broome)	(RG12/2088: F.52, p.8.)	Station Terrace, Broome
214	Ag. Lab.		Jane		N/k		N/k	N/k	N/k	Brookton
234	Lab. on the Roads		Mary		N/k		N/k	N/k	N/k	Brookton
244	Ag. Lab.		Elizabeth		N/k		N/k	N/k	N/k	Acton
253	Ag. Lab.		Sarah		N/k		1	N/k	N/k	Leasey
257	Ag. Lab.		Mary Ann		43		7	Lydbury North (Township)	RG12/2088: Fo.16, p.7	Lydbury North
262	Ry. Platelayer		N/k		N/k		N/k	N/k	N/k	Hordeley
284	Farmer		Mary Eliza		N/k		N/k	N/k	N/k	Broome
309	Wheelwright Master		N/k		N/k		N/k	N/k	N/k	N/k
317	Lab. in Woods		Mary Ann		N/k		1	N/k	N/k	Leasey
319	Farmer		Elizabeth		N/k		2	N/k	N/k	
328	Farmer		Sarah Catherine		N/k		2	Folly Farm, Lydbury North	RG12/2088: F.17, p.10	Folly, Lydbury North
337	Garnkeeper		Alice		N/k		1	N/k	N/k	The Limes, Lydbury North
341	Farmer		Mary Eliza		N/k		1	N/k	N/k	Broome
345	Ry. Platelayer		N/k		N/k		1	N/k	N/k	Hordeley
346	Ag. Lab.		N/k		N/k		N/k	N/k	N/k	
368	Ag. Lab.		N/k	N/k	N/k		N/k	N/k	N/k	
369	Rural Postman		Harriet		N/k		2	N/k	N/k	

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Appendix 3(b) - Nominal Record Linkage: Infant Deaths re children born at Lydbury North, July 1891-December 1902

VR No.	Notes	Farm 1891 CEB Ref	Farm Acreage 1891	No. Rooms 1891 CEB	Armstrong Social Classification	No. Known Infant Deaths
441				5+	5	
442	Father's Occ = Shepherd on 1891 CEB			5+	5	
446	CEB=household lived in 4 rooms			4	5	
453	Other source = Bap. Father's Occ = Wheelwright			N/k	3	
454	See Baps., Edgton: CEB = 3 rooms: 2 prev. inf deaths: 1 later infant death (1898)/All d. <14 days			3	5	
471	VR Entry 14 (see below) confirms Little Brampton address			5+	5	
477	Buried Lydbury North C of E (Ml Trans.): Twin (see 478).			4	5	
478	Buried Lydbury North C of E (Ml Trans.): Twin (see 477).			4	5	2
486	Not at Oakley 1891 (see CEB, RG12/2088, f.56, p.14)			N/k	5	
497	Link proven-Address Baps/CEB: Child one of twins: Mother died & bd. Lydbury N. 25 May 1893			5+	5	
13	Death date noted as bur.: See 349 (1890)-Male child d. aged 7 mths (noted via Lydbury Burs.)			5+	3	2
14	2nd known infant death (see 471 above)			5+	5	2
16	Father = Railway Labourer on 1891 CEB: 1st child traced via Bap.			N/k	5	
26				N/k	4	
41	See 244 - further infant death 1900: Other source = Bap & Bur Regs.			N/k	5	
71				N/k	N/k	
113	Believed father 2nd mar. 1908, Edgton. Age 38: Other source = Burs., Edgton			N/k	5	
118	Other sources = Baps & Burs. Lydbury North			N/k	5	
141	See Baps., Edgton: CEB = 3 rooms: 3 prev. inf deaths: All d. <14 days			3	5	4
160	1891 CEB poss RG12/2038: F.50, p.3 (lodger): Prev. children via VR: 500 & 69 & Baps			N/k	3	
168	Married Hopsey 09/04/1898			N/k	4	
170	CEB = Cottage, 4 rooms: Mar 1890, Edgton CE: Other sources: Baps., Edgton & Mar., Edgton.			4	3	
182	Death date noted as bur.: Further bap 1899 (Lydbury N.).			N/k	5	
187	Mar. 1897: Father = widower: Apparently 1st child: Second Bap. 1898			N/k	5	
191	Only Source = VR			N/k	5	
204	Other sources=Baps of other children. Other address = 1900: 1891 CEB entry not proven, but likely			5+	4	
214	Other sources = Baps & Burs. Lydbury North			N/k	5	
234	Death date as Bur.: Other sources = Baps & Burs. Lydbury North			N/k	5	
244	See 41 - previous infant death 1895: Other source = Bap & Bur Regs.			N/k	5	2
263	Other sources = Baps & Burs. Lydbury North: First bap. 1894			N/k	5	
267	Other sources = Baps & Burs. Lydbury North			4	5	
282	Mother d. as child (bur): See 345 - 2nd infant death 1902: Meth. baps 1911/2 (2nd spouse?)			N/k	4	
284	Valuation List, Hopsey, 31/08/1900 (PLB/278): See 341 - second infant death 1902:		400	5+	2	
309	Bur in Powdren RC Cemetery (Ml Trans.): Probable link-CEB - father =Wheelwright-Powdren Hall			N/k	3	
317	Other sources = Baps & Burs. Lydbury North			N/k	5	
319	Other sources = Baps of other children: Valuation List, Hopsey, 11/02/1899 (PLB/278)			5+	2	
328	CEB= empr. - 3 farm servs & 1 Dom. Serv: Other source = Chun Primitive Methodists Baps	RG11/2622, f.30, p.5	365	5+	2	
337	Other source = Baps. & Burs., Lydbury North			N/k	4	
341	See 284 above - 2nd infant death: Bur. Hopsey CE 28/05/1902		400	5+	2	2
346	Valuation List, Hopsey, 31/08/1900 (PLB/278): See 282 - first infant death 1900			N/k	4	2
368	No other sources: No other children in VR.			N/k	5	
369				N/k	4	

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Appendix 4 - Listing of families with multiple infant deaths - Lydbury North, July 1891-Dec 1902 (Pre-July 1891 in italics).

Note: This Appendix consists of four pages														
VR No.	Surname	First Name(s) Child	Sex	Leg/Illeg	Date Born	Date Baptised	Baptised Location	Religious Denom.	Date Died	Age Days	Birthplace	Sub-District	Father First Name(s)	Father Age
Pre-VR	Green	William	M	L	N/k	24 Jul 1890	Edgton	CE	24 Jul 1890	1	Edgton	Not Applic	George	30
Pre-VR	Green	Sarah	F	L	N/k	24 Oct 1892	Edgton	CE	28 Oct 1892	4	Edgton	Not Applic	George	32
454	Green	Jonathan	M	L	09 Sep 1892	09 Sep 1892	Edgton	CE	09 Sep 1892	1	Edgton	Lydbury N.	George	42
141	Green	Herbert	M	L	23 Nov 1896	24 Nov 1896	Edgton	CE	07 Dec 1896	14	Brunslow, Edgton	Lydbury N.	George	46
477	Corfield	Owen	M	L	06 Jan 1893	N/k	N/k	N/k	23 Jan 1893	17	Choulton, Lydbury North	Lydbury N.	Edward	38
478	Corfield	Eva	F	L	06 Jan 1893	N/k	N/k	N/k	23 Jan 1893	17	Choulton, Lydbury North	Lydbury N.	Edward	38
349	Rogers	John	M	L	23 May 1890	15 Jun 1890	Lydbury	CE	09 Jan 1891	231	Brockton, Lydbury North	Not Applic	John	34
13	Rogers	Arthur John	M	L	09 Sep 1893	22 Oct 1893	Lydbury	CE	09 May 1894	242	Brockton, Lydbury North	Lydbury N.	John	37
471	Morris	Sarah	F	L	25 Dec 1892	N/k	N/k	N/k	25 Dec 1892	1	Little Brampton, Hopesay	Lydbury N.	Philip	38
14	Morris	James	M	L	27 Oct 1893	N/k	N/k	N/k	28 Oct 1893	2	Little Brampton, Hopesay	Lydbury N.	Philip	39
41	Pugh	William George	M	L	20 Sep 1894	25 Sep 1894	Lydbury	CE	16 Jan 1895	118	Acton, Lydbury North	Lydbury N.	Richard	N/k
244	Pugh	Alfred John	M	L	06 Aug 1899	N/k	Lydbury	CE	14-Feb-1900	186	Acton, Lydbury North	Lydbury N.	Richard	N/k
284	Edwards	Evan	M	L	11-Jul-1900	11-Jul-1900	Hopesay	CE	18-Jul-1900	7	Broome, Hopesay	Lydbury N.	James Arthur	N/k
341	Edwards	Doris Emily Evelyn	F	L	02-May-1902	02-May-1902	Hopesay	CE	24-May-1902	22	Broome, Hopesay	Lydbury N.	James Arthur	N/k
282	Anslow	John Thomas	M	L	28-Jun-1900	N/k	N/k	N/k	07-Jul-1900	11	Harderley, Edgton	Lydbury N.	Thomas	N/k
345	Anslow	Unnamed	F	L	17-Jun-1902	N/k	N/k	N/k	18-Jun-1902	1	Harderley, Edgton	Lydbury N.	Thomas	N/k

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Appendix 4 - Listing of families with multiple infant deaths - Lydbury North, July 1891-Dec 1902 (Pre-July 1891 in italics).

VR No.	Father		Mother	Mother First Name	Mother Age	Previous Children	1891 CEB Address	1891 CEB Ref.	Other Source(s) Address
	Occupation	Occupation							
Pre-VR	Labourer	Labourer	Maria	Maria	27	1	Cottage, Edgton	RG12/2088: F.32, p.4	
Pre-VR	Labourer	Labourer	Maria	Maria	29	2	Cottage, Edgton	RG12/2088: F.32, p.4	
454	Ag. Lab.	Ag. Lab.	Maria	Maria	39	6	Cottage, Edgton	RG12/2088: F.32, p.4	Brunslow Cottage (1893-5): Edgton
141	Ag. Lab.	Ag. Lab.	Maria	Maria	43	8	Cottage, Edgton	RG12/2088: F.32, p.4	Brunslow Cottage (1893-5): Edgton
477	Lab. in Woods	Lab. in Woods	Mary A.	Mary A.	31	6	Choulton	RG12/2088: F.25, p.4	
478	Lab. in Woods	Lab. in Woods	Mary A.	Mary A.	31	6	Choulton	RG12/2088: F.25, p.4	
349	Wheelwright (Journeyman)	Wheelwright (Journeyman)	Sarah	Sarah	31	1	Brockton	RG12/2088: F.4, p.2	
13	Carpenter & Wheelwright Master	Carpenter & Wheelwright Master	Sarah	Sarah	34	3	Brockton	RG12/2088: F.4, p.2	Brockton
471	Ag. Lab.	Ag. Lab.	Charlotte	Charlotte	38	8	Little Brampton, Hopesay	RG12/2088: F.56, p.15	
14	Ag. Lab.	Ag. Lab.	Charlotte	Charlotte	39	9	Little Brampton, Hopesay	RG12/2088: F.56, p.15	
41	Ag. Lab.	Ag. Lab.	Elizabeth	Elizabeth	N/k	N/k	N/k	N/k	Acton
244	Ag. Lab.	Ag. Lab.	Elizabeth	Elizabeth	N/k	N/k	N/k	N/k	Acton
284	Farmer	Farmer	Mary Eliza	Mary Eliza	N/k	N/k	N/k	N/k	Broome
341	Farmer	Farmer	Mary Eliza	Mary Eliza	N/k	1	N/k	N/k	Broome
282	Ry. Platelayer	Ry. Platelayer	N/k	N/k	N/k	N/k	N/k	N/k	Hordeley
345	Ry. Platelayer	Ry. Platelayer	N/k	N/k	N/k	1	N/k	N/k	Hordeley

(Եզրին ու թեր չափ) ՏՕԶ ԾԳ-ԹԶԻ ԿԱԼ, ընդ լուսնի սլոյմում հայ աստղիչ ԴՈ քաղաք - Բ Խեռագր

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Appendix 4 - Listing of families with multiple infant deaths - Lydbury North, July 1891-Dec 1902 (Pre-July 1891 in italics).

VR No.	
<i>Pre-VR</i>	
<i>Pre-VR</i>	
454	
141	
477	
478	
349	
13	
471	
14	
41	
244	
284	
341	
282	
345	

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Armstrong's Social Classification for York, 1851

Class 1.

Accountant	Magistrate (Stipendiary, i.e. paid	Reporter
Archbishop's Secretary	magistrates are classified, but honor-	Sharebroker
Architect	ary magistrates such as JPs are not).	Shipowner
Army Officer	Museum Curator	Solicitor
Attorney	Naval Officer	Surgeon or Physician
Dentist	Ordnance Surveyor	Surveyor
Independent Minister	Rector	Vicar

Class II

Auctioneer	Language Professor	Relieving Officer
Bookkeeper	Music Teacher	Schoolmaster/Schoolmistress
Coal Agent	Professor of Music	Sculptor
Commercial Teacher	Proprietor of Ladies' Seminary	Station Master
Factor (Unspecified)	Police Chief Constable	Translator (language)
Inland Revenue Collector	Railway Audit Clerk	Veterinary Surgeon
Land Agent	Railway Inspector	

(Farmers should be included here, unless they have less than five acres - acreage is usually given - in which case they should go in Class III).

Class III

Assistant (to Linen Draper)	Compositor	Glass Maker
Assistant (Ordnance Officer))	Comb-Maker	Glass Stainer
Baker	Confectioner	Glover
Basket Maker	Cook	Greengrocer
Beer Retailer	Cooper	Grocer
Blacksmith	Coppersmith	Gun-Maker (Gunsmith)
Boiler Maker	Cordwainer	Gutta-Percha Merchant (Broker)
Bookbinder	Corn, Flour Dealer	Hairdresser
Bookseller	Currier	Hatter
Bonnet Maker	Cutler	Hay & Straw Dealer
Boot Closer	Damask Weaver	Hosier
Brass Fitter	Dentist's Assistant	Housepainter
Bricklayer	Draper	Innkeeper (Publican)
Brush Maker	Dressmaker	Ironmonger
Builder	Eating-House Keeper	Iron-Moulder
Butcher	Engine Driver	Iron Turner
Cabinet Maker	Engineer	Joiner
Cabman	Engine Fitter	Law Stationer
Calico Weaver	Engine-Spring Maker	Leather Dresser
Car (Carriage) Painter	Engraver	Linen Spinner
Chair Maker	Farrier	Manure Dealer
Chemist	File Cutter (Maker)	Marble Mason
Cattle Dealer	Fireman	Master Grinder
Clerk (Unspecified)	Fishmonger	Master Mariner
Clockmaker	Florist	Miller (Flour & Grain)
Coach Builder	French-Kid Stainer	Millwright
Coach-Lace Weaver	Fringe Weaver	Muffin Maker
Coachman	Fruiterer	Musician
Coach Trimmer	Gas Fitter	Music Seller
Coachsmith	Gilder	Nail Maker
Coach Wheel Maker	Girth Weaver	Nurse
Coal Dealer	Glass Blower	Omnibus Driver
Optician	Saddler	Tailor
Pawnbroker	Saddle-Tree Maker	Tea Dealer
Perfumer	Sailor	Telegraph Clerk
Picture Dealer	Sawyer	Tobacconist
Picture-Frame Maker	Seamstress	Traveller (Commercial)
Pipe Maker (Tobacco)	Seedsman	Upholsterer
Plane Maker	Shipbuilder	Victualler

Armstrong's Social Classification for York, 1851

Plasterer	Ship's Carpenter	Waiter
Police Constable	Shoemaker	Warehouseman
Plumber	Shopman	Watchmaker
Pot Dealer	Silversmith	Weaver (Textile)
Pot Maker (Potter)	Silver Turner	Wheelwright
Poulterer	Slater	Whitesmith
Printer	Soldier	Wine & Spirit Dealer
Railway Clerk	Stationer	Wire Worker
Railway Fitter	Staymaker (Corset Maker)	Wood Carver
Railway Guard	Stonemason	Woodsman
Railway Pointsman	Stone Sawyer	Woodturner
Railway Policeman		Writer

(Innkeepers with servants and tradesmen, dealers and manufacturers who were employers should be upgraded to Class II).

Class IV

Agricultural Labourer	General Servant	Office Keeper
Brazier	Gentleman's Servant	Ostler
Brewer	Goods Deliverer (Railway)	Pavior
Brickmaker	Groom	Quiltress
Carler (or Carrier)	Herdsman	Rail Stoker
(Horse drawn conveyance)		
Cloth Dresser	Horsebreaker	Railway Ticket Collector
Cork Cutter	Horsekeeper	Rope Maker
Cowkeeper	Hotel Porter	Steward (Club)
Drover	Housekeeper	Stoker
Engine Cleaner	Housemaid	Washerwoman
Flax Dresser	Laundress	Waterman (Boatman)
Gardener		

Class V

Charwoman	Messenger	Rail Porter
Errand Boy	News Vendor	Road Labourer
Hawker	Porter	Scavenger
Labourer	Rag & Paper Collector	

Source: Armstrong (1972), pp. 215-23, reprinted in Drake M., & Finnegan, R. with Eustace, J., (1994), pp. 48-9.

Appendix 7

Potential Sources of Possible Use in Studying Infant Mortality in Shropshire during the 19th & 20th Centuries

The undermentioned sources were not used in my research into infant mortality in Norbury & Lydbury North, 1891-1902, mainly because their dates did not coincide with the period of my research. They are listed here with the object of assisting future researchers into Infant Mortality in South Shropshire.

Unless otherwise stated, sources are held at the Records & Research Centre, Shrewsbury, Shropshire.

Vaccinators' Officers' Reports, Lydbury, 1888-1901. Source Ref. PL6/254

Information in source:-

Number in Report Book.

Birth Registration District.

Number of Birth Registration.

Name of Child.

Address of Parent.

Date(s) of Personal Enquiry.

Case accounted for in Vaccination Register (date).

If vaccination postponed by Medical Certificate, Date of Certificate, by whom certified, and/or date to which vaccination was postponed.

Annotation of cases in which the child was not found.

Parents removed to (location).

In cases of default, date reported to Guardians.

Proceedings ordered or taken.

Remarks column.

Source adds information to that in the Vaccination Registers - shows objectors, some infant deaths, persons moved etc., and also some legal proceedings recorded.

Vaccinators' Returns Clun Union, 1865-86. Source Ref. PL6/255

Information in source:-

Contains summary information derived from the Vaccination Registers - totals only.

Separate totals given per district. Figures for Lydbury North & Norbury are included.

Number of Births as Registered.

Number of Successful Vaccinations, as Col.10 in Register.

Number of cases with Certificate of Insusceptibility (Col.11 in Register).

Number of cases in which death occurred before vaccination (Col.13 in Register).

Number of cases in which vaccination was postponed by certificate.

Number of cases in which child's parents moved & the Vaccination Officer in the new district has been notified.

Number of cases in which child's parents moved to an unknown destination.

Number of Births not accounted for.

Returns for 1888-1907 are available. See Source No. **PL6/256**.

The information was inconsistent, in the following ways:-

a) Some of the returns were covering six months periods, whilst others covered a year.

- b) In some cases there was more than one return for a given year and location, and it was not clear which return was the final one. The returns were all dated, and I assumed that the return bearing the latest date was probably the final one.
- c) The figures on some of these returns did not add up to the total Births registered, as it appeared that they should. I could not find a reason for this. Some time would need to be spent evaluating these returns in order to decide which of them is of relevance to the work in hand.

As this source contains summary totals only, there is a lack of detailed information. If required, this information would have to be obtained from other sources.

The Returns, which I viewed, were dated 1874, 1875, 1876 & 1881.

Vaccinators' Returns, Clun Union, 1869-1880. Source Ref. PL6/256

Information in source:-

Contains summary information derived from the Vaccination Registers - totals only. Separate totals given per district. Figures for Lydbury North & Norbury are included.

Number of Births as Registered.

Number of Successful Vaccinations, as Col.10 in Register.

Number of cases with Certificate of Insusceptibility (Col.11 in Register).

Number of cases in which death occurred before vaccination (Col.13 in Register).

Number of cases in which vaccination was postponed by certificate.

Number of cases in which child's parents moved & the Vaccination Officer in the new district has been notified.

Number of cases in which child's parents moved to an unknown destination.

Number of Births not accounted for.

See also source PL6/255, described above.

The information was inconsistent, in the following ways:-

- a) Some of the returns were covering six months periods, whilst others covered a year.
- b) In some cases there was more than one return for a given year and location, and it was not clear which return was the final one. The returns were all dated, and I assumed that the return bearing the latest date was probably the final one.
- c) The figures on some of these returns did not add up to the total Births registered, as it appeared that they should. I could not find a reason for this. Some time will need to be spent evaluating these returns in order to decide which of them is of value to us,

As this source contains summary totals only, there is a lack of detailed information. If required, this information would have to be obtained from other sources.

Annual Contracts re the appointment of Vaccinators, Clun Union, 1885-1902

Source Ref. PL6/258.

Contracts appear to have been agreed annually. These documents show who was the Vaccinator in a given year, as well as their rates of remuneration. They were paid per vaccination. The contracts also lay down vaccination times and places, as well as the procedures to be adopted.

The documents in this bundle include some correspondence with the Ministry of Health, which makes it clear that their officials in London did interfere with the activity of the vaccinators in their localities. It also includes some posters, which had to be displayed to inform the public of the dates, times, and locations of vaccination sessions.

Register of Births & Deaths in Bishops Castle Workhouse (Clun Union), 1866-1914.

Source Ref. PL6/224

Information in source:-

Births

Date of Birth.

Male or Female.

Name of Parents or Mother.

From what Parish Admitted.

Baptised where & when.

Baptised in what name.

Remarks.

Deaths.

Date of Death.

Name

Age

From what Parish Admitted.

Where Buried.

This source lists births & deaths in the workhouse. These events are recorded separately, using a standard form in a book. The Births are recorded at the front of the book, and the deaths are recorded at the back of the book.

From 1914 separate books were used to record Births and Deaths in the workhouse. I looked at the following item:-

Register of Births in Bishops Castle Workhouse (Clun Union), 1914-1939, Source Ref. PL6/225.

Information in source

As recorded above in respect of Births Register 1866-1914, except the following additional item:-

Legitimate or illegitimate.

Re Birth Registers.

Dates were recorded in an inconsistent manner, some being omitted. In particular, in source PL6/225 the Baptism dates were recorded, whereas in source PL6/224 they were omitted.

The birth registered in these sources will have been recorded in the Civil Registers as taking place at Bishops Castle, rather than the parish of residence. This means that this source includes some births which relate to persons resident in Norbury & Lydbury North, but which were excluded from the Vaccination Registers for those places.

Re. Death Register.

The age of the deceased was omitted during entries made in the period 1881-1884. This is unfortunate, as some of these entries must relate to infant deaths. Most of the deceased persons registered in this source were either aged or young.

In some cases the cause of death was stated.

The place of burial of the deceased was shown. This was usually Bishops Castle, and I deduced that this church burial ground was the burial ground for the workhouse. A few persons were buried elsewhere, usually in the parish from which they were admitted to the workhouse.

Medical Officers' Returns (Various), Clun Union, 1889-1919,**Sources Ref. PL6/239-46 (7 bundles)**Information in source:-

Name of Doctor.

District.

Name of Pauper.

Age of Pauper.

Residence of Pauper.

Nature of Disease.

Days when attended. This included information as to where the consultation took place, and whether any medication was prescribed, the appropriate letter being entered against the relevant day: H=home, S=surgery, M=medication.

State or termination of case.

Observations.

Each pair of facing pages covered two weeks.

The information in these documents was recorded on separate sheets.

I looked at two bundles - PL6/239 & PL6/240. These contained a number of collections of returns. PL6/239 contained returns of the following dates:-

Sept.1889-Mar.1890: Sept.1889-Mar.1891: Sept.1893-Mar.1893: Sept.1893-Mar.1894:
Sept. 1894-Mar.1895.

PL6/240 contained returns of the following dates:-

Apr.1895-Sept. 1899.

Most of the entries in this source covered treatment to adults or older children, but there were a number of cases of treatment of infants.

A weakness in the source is that there are a number of entries, which do not include the age of the person under treatment. There may well have been more cases of infant sickness than this source may lead one to believe.

District Medical Relief Books - Norbury, 1904-1912. Source Ref. PL6/235**Information in source:-**

Name of Doctor.

District.

Name of Pauper.

Age of Pauper.

Residence of Pauper.

Nature of Disease.

Days when attended.

Necessaries given to patient.

State or termination of case.

This source contains information relating to Norbury, rather than to Clun Union, as did PL6/239-46, described above.

This source is similar to PL6/239-46, described above. Its content differs little from that source in terms of the information contained, but it covers an later period, and the information is entered in a book, rather than being on separate sheets. Each pair of facing pages covered Four weeks.

This source contains interesting information re ailments, treatments etc., but during my brief search I found no mention of infants.

Memorandum on the steps specifically requisite to be taken by Boards of Guardians on the occurrence of Smallpox, Source Ref. PL6/258**Information in source:-**

Official instruction, issued to all poor law unions on 7th November 1922 by Ministry of Health, London.

Smallpox among Casuals, Circular 859, dated 23rd January 1928, source Ref. PL6/258.**Information in source:-**

All casual persons admitted to the Workhouse were to be examined on entry by the Medical Officer, to check whether or not they had smallpox. This was a response to an outbreak of smallpox among such people at the time. The source also includes correspondence relating to this instruction, and also relating to the amounts paid to Medical Officers for their services.

Medical Officers' Orders (Clun Union), 1888 (23 items). Source Ref. PL6/322**Information in source:-**

Date.

Parish of Residence.

Name.

Age.

Disease.

Wine & other necessaries & quantity ordered.

These orders were in the form of separate pre-printed slips, size 9" x 4". A separate slip for each case.

The text at the bottom of the slip read:-

"Upon receipt of this you must give the relief above mentioned to the pauper named in this order."

To: *Mr. Moray*, Relieving officer of the Clun Union.

Signed *W. Laird Cox* Medical Officer for the Bishops Castle District.

For the most part these orders relate to adults; in the bundle there were only two children mentioned, both aged around 14 years.

Annual Medical Officer of Health Reports, Clun Sanitary Authority, 1879-1884.

Source Ref. PL6/301.

Information in Source.

Content varies from one report to the next, but typically, one may expect to find:-

Statistics of Deaths in the district, and death rates per 1000 pop. In 1879 these statistics were placed in context by the inclusion of the figures for the past 6 years.

Statistics of Births, and birth rates per 1000 pop.

Infant mortality statistics, and an analysis of causes of death.

An account of the main outbreaks of infectious diseases, their causes & possible remedies.

Statistical table showing the number of cases of different illnesses per annum, over a 6 year period.

Table of locality & date of fatal cases of infectious diseases.

Statistical analysis of the births and deaths in the area during the year. This includes an analysis by age, and named disease.

These items are catalogued as "Clun Sanitary Authority Annual Reports".

The information in this source does not name persons involved in the cases cited, so one cannot identify individuals and carry out detailed investigation of them. However, it may be possible to do this by linking these records to either the records of civil registration, or to the local burial records, as the locations are stated, and usually the time of year is, also.

The information re deaths of young persons in the last item listed above categorises infants as "under 4 years", which would be of no assistance in identifying infant deaths. However, by relating this table to the information on infant mortality elsewhere in the reports, it may well be possible to glean substantial information on this subject from this source.

These reports are hand written, or type written. Much of the report takes the form of analysis, by the Medical Officer of Health, of the incidence and nature of illness in his area. In the course of this analysis the MOH highlights matters, which he judges to be of prime importance to the improvement of the situation, and often makes recommendations in this regard.

These reports provide much information about the locality, which they treat. Information on such topics as housing, sanitation, incidence of disease, infant mortality numbers and rates including comparison with previous years and with national data. These figures are explained, and a trend observed where possible.

**Annual Report of the School Medical Officer of Health, 1909-1972 (1941 missing),
Source Refs. SC1 1C 3/1-63**

Shropshire County Council, Records Management Service, Shire Hall, Shrewsbury hold this source.

Although these records relate to older children, they could be useful in research into infant mortality, as they include reports of epidemics in given areas, which may give indications of the causes of infant mortality.

1873 Survey of Clun Sanitary Authority. Source Ref. PL6/286.

Information in Source.

A report, by the Inspector of Nuisances, into the condition of the household sanitary conditions in the area under the jurisdiction of the authority. The information is presented in tabular form, and categorises houses in seven localities according to the quality of their sanitary facilities.

Included in this source is a petition, which was signed by the people of Bishops Castle, complaining about the quality of the water supply in that town.

Clun Sanitary Authority Minute Books, 1872-1906. Source Refs. PL6/295-8.

Information in Source.

Official record of the meetings of the above committee, which was formed as a result of the Public Health Act, 1872. This committee received reports from the Inspectors of Nuisances and the Medical Officer of Health in the localities, and acted upon them.

I looked at source ref. **PL6/295**, which covered the years 1872-3. The contents of these minutes deal with such matters as an enquiry into the state of the water pumps in the town of Bishops Castle, and the "prevalence of Scarlatina" in the district. Villages affected by this sickness are identified, and there is a lengthy discussion recorded on the subject of the lack of isolation facilities. Some of the reports, which were submitted to the committee, are reproduced. Generally these records are somewhat terse, but they contain a great deal of information which is may be of value to research into the causes of infant mortality. As an official record of meetings a clerk would have taken them, and certified true and accurate by members of the committee, so they should be regarded as a reliable source.

Clun Rural Sanitary Authority Ledger, 1873-1893. Source Ref. PL6/299.

Information in source:-

Book of Account, containing expense accounts and balance sheets. Information includes monies raised from rates, listing sums for each village or hamlet in the authority. Expenses are shown in summary only, but salaries paid are details (Medical Officer of Health, Clerk etc.).

The books were audited at regular intervals, and therefore the information therein should be regarded as reliable.

Clun Rural Sanitary Authority Returns of Receipts & Expenditure, 1876-1894.

Source Ref. PL6/303.

These records are on separate, pre-printed sheets. The format of the forms changed over time, but the content changed little.

Receipts and expenditure totals only are shown in respect of each "contributory place" in the Union. The information also includes rateable values per "contributory place".

Valuation Lists and Papers - Plowden Estate, Lydbury, Edgton, Hill End, Norbury and Myndtown, c1880. Source Ref. PL6/277.

Information in source:-

Valuation Lists.

These items do not conform to a set format; there are some printed forms, which have been completed in handwriting, and other items, which are not pre-printed, but are entirely hand-written. They all contain similar information:-

Name of Occupier of property.

Description of property (not detailed, e.g.. "cottage").

Location of property.

Extent of property (acreage - not included in all documents).

Annual rent.

These lists do not show every person living in the localities, which they cover, and some of them are very difficult to use, being on scraps of paper and incomplete. However, the lists for Lady Lyster's Estate at Wentnor, the Plowden Estate (Norbury & Mindtown), Edgton, Hill End, and Lydbury North and surrounding area, seem fairly complete and clear. The Lydbury North Valuation List lists 57 persons.

Many of the documents in this bundle are undated, so it is not possible to identify the precise year to which they relate. However, it may be possible to overcome this problem by relating some of them to other population listings, e.g. Census Enumerators' Books (see below). The dating of the source by the Records & Research Centre appears to be approximate.

Papers.

The main item in this bundle comprises copies of a series of summonses, issued on the instigation of the Clun Sanitary Authority, against Lady Lyster, one of the local landowners. She had an Estate in Wentnor and in the minutes of the Clun Sanitary Authority (PL6/295, see above) her houses were described as being "abominable" (p.45, 30th May 1873). The summonses cite 26 cottages in various stated locations, and name the tenants who were living in them. The cottages are described as being "in a dilapidated condition having no ventilation drainage or privy accommodation and in a state as to be a

nuisance and injurious to health." Lady Lyster was given 6 months in which to rectify this situation.

This source gives a valuable insight into the living conditions of ordinary people in the 1870s, and the steps, which were being taken to rectify the situation. As an official legal source, its accuracy should be reliable.

Register of Infants, Clun Union, 1909-1928. Source Ref. PL6/312.

Information in source.

Reference number of infant.

Date of Receipt of Notice.

Name of Child.

Sex of child.

Date of Birth of Child.

Name & Address of person from whom child received.

Remarks.

Name & Address of person by whom child received.

Folio number in register of persons receiving.

Indexed A-Z by child's surname.

This register was kept as a condition of the Children's Act, 1908, which provided for the paid care of children by persons other than their parents. It is stated that "infants" were defined in the Act as children less than seven years.

Some of the children featuring in this source were less than one year old when registered. The children named in the source came mainly from Shropshire, but there were some children from more distant places in the U.K.

As the later material in this source is dated within 70 years of today, it is necessary to sign a confidentiality declaration in respect of this document.

This source may be useful as evidence of the concern in society about childcare in the early 20th century, and action taken in an attempt to improve same..

Undertakings for nursing and Maintenance, Clun Union, 1909-1927. Source Ref. PL6/314.

Information in Source.(a)

Name of carer.

Address of carer.

Name of Infant.

Date in care.

Date of Birth of Infant.

Birthplace of Infant.

Infant received from (name) of (location).

Infant being kept at (address).

Date & Signature of Carer.

Information in Source (b)

Name of carer.

Address of carer.

Name of Infant

Date Infant removed from care.

Transferred to the care of (name & address).

Date & Signature of carer.

These are separate declarations, made on separate, pre-printed forms. Document (a) is a notification to the authorities of receipt of a child. Document (b) is a notification to the authorities of the transfer of a child to another carer.

Many of these documents relate to children under the age of one year, a large number of whom came from places outside Shropshire.

As the later material in this source is dated within 70 years of today, it is necessary to sign a confidentiality declaration in respect of this document.

This source may be useful as evidence of the concern in society about childcare in the early 20th century, and action taken in an attempt to improve same..

Register of persons who retain or receive infants for hire or reward within the District

of Clun Union (1907-29). Source Ref. PL6/311.

Information in Source.

Reference Number of Carer.

Name of Carer.

Address of Dwelling where Infants are kept.

Number of Infants.

Consecutive Number as in Register of Infants.

Name of Infants Received.

Age on Admission (yr.-mth-days) - often stated as Date of Birth.

Date Received.

Date Removed.

Observations etc.

This record was kept under the provisions of the Infant Life Protection Act .

Half of a double foolscap page was allocated to each carer, and infants taken into their care were listed.

The information relating to Age on Admission or Date of Birth of the Infants was recorded inconsistently. In many cases neither date was stated.

As the later material in this source is dated within 70 years of today, it is necessary to sign a confidentiality declaration in respect of this document.

This source may be useful as evidence of the concern in society about childcare in the early 20th century, and action taken in an attempt to improve it.

Appendix 8.**Description of appended item.**

1 - 3.5" Computer Floppy Disk containing data obtained from the following Primary Source material, saved as *Excel 97* file *IMPDATA – Vaccination Registers Norbury & Lydbury North:-*

Vaccination Register of Births for Lydbury North Registration Sub-District,
3rd December 1888 – 16th December 1901.

Shropshire Records & Research Centre Source Ref. PL6/250.

Vaccination Register of Births for Lydbury North Registration Sub-District,
26th January 1902 – 30th April 1911.

Shropshire Records & Research Centre Source Ref. PL6/251.

Vaccination Register of Births for Norbury Registration Sub-District, 20th May 1891 – 28th
January 1903.

Shropshire Records & Research Centre Source Ref. PL6/252.